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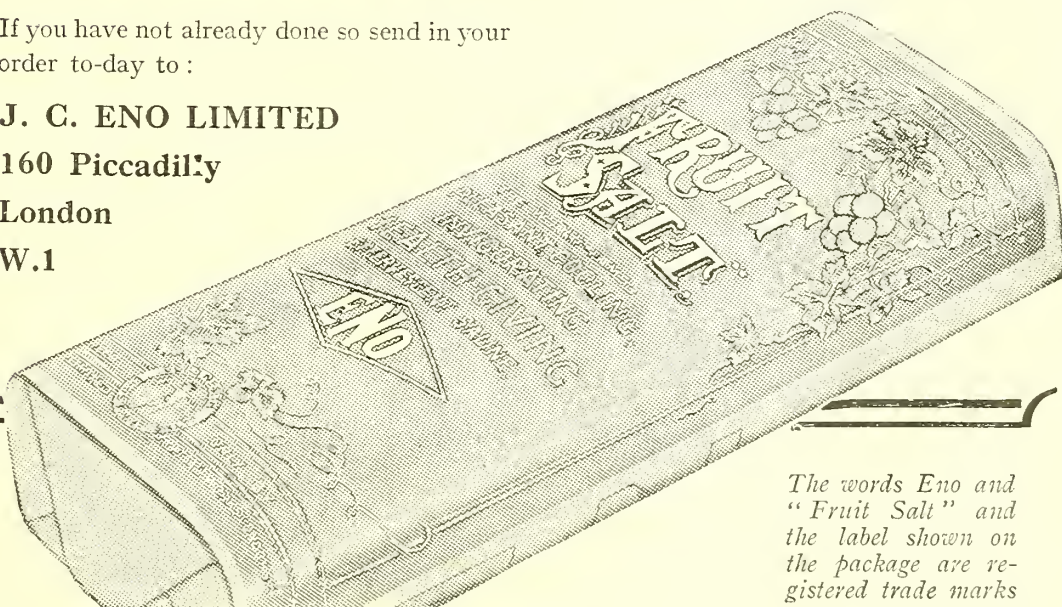
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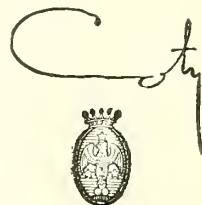
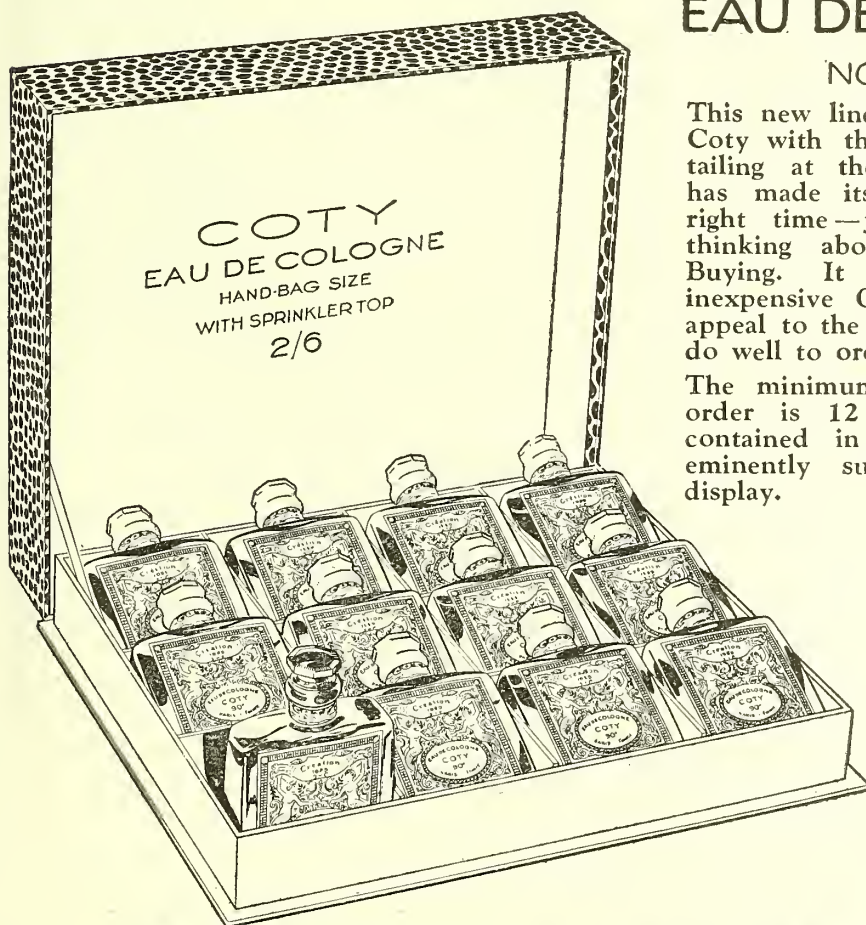
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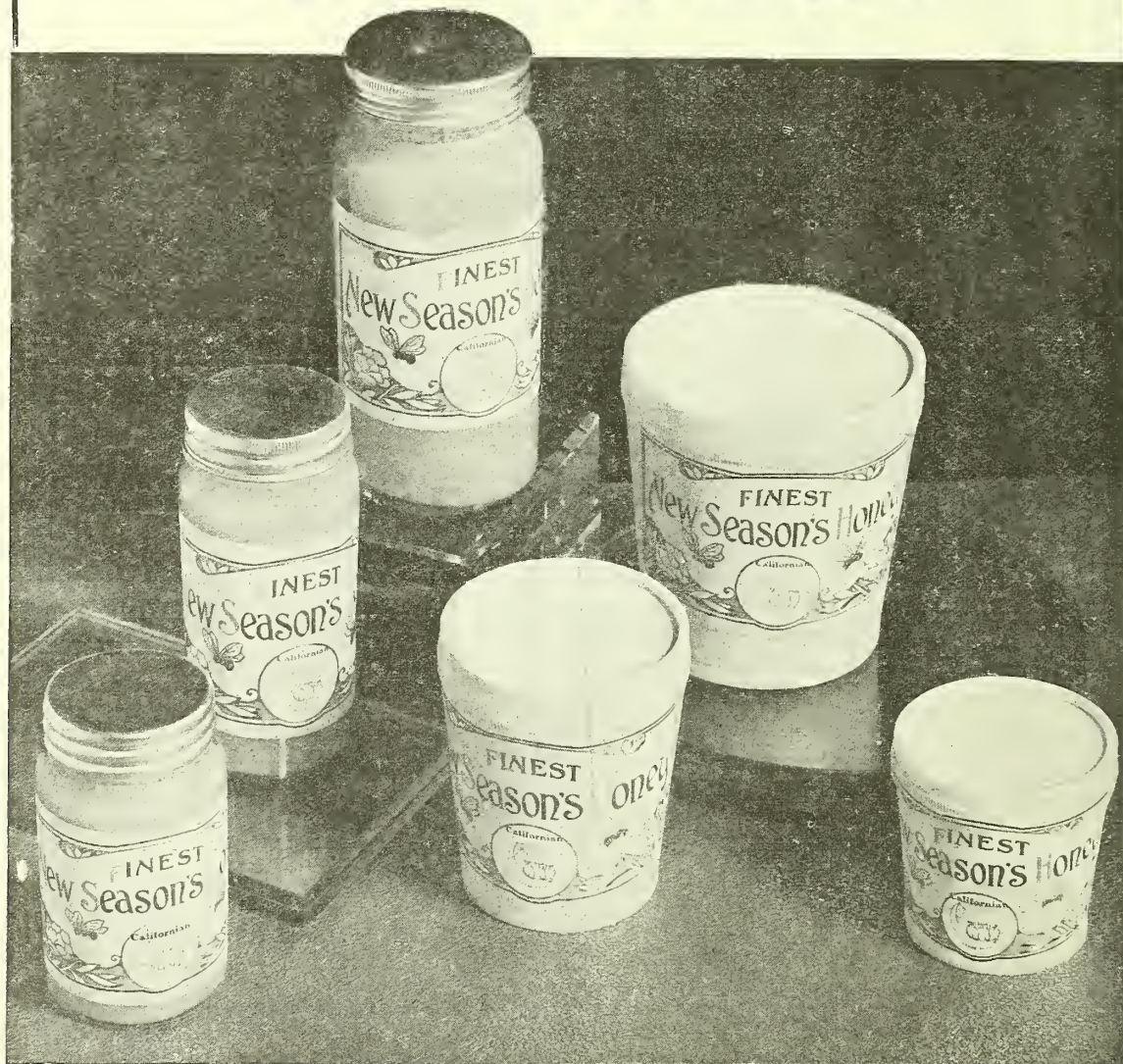


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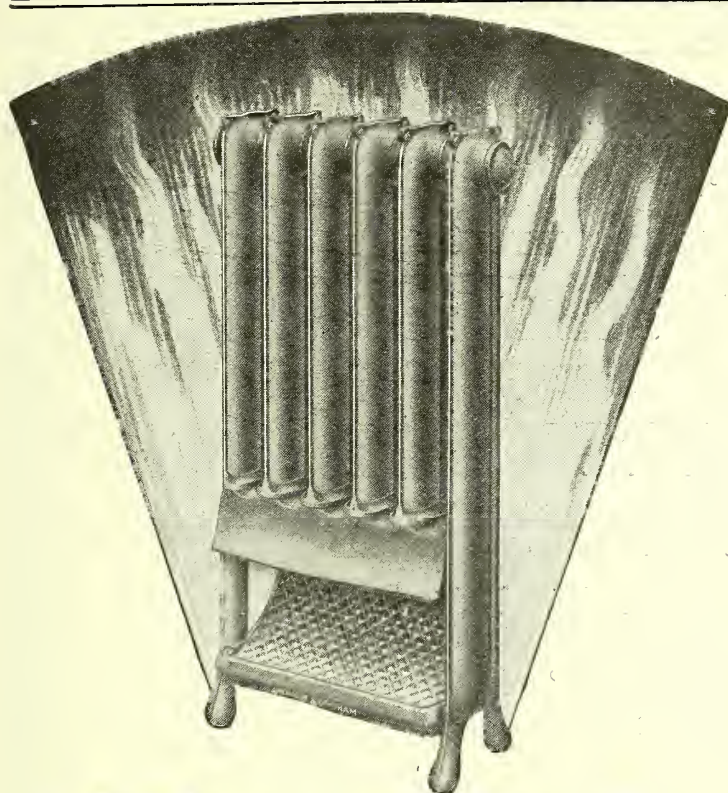
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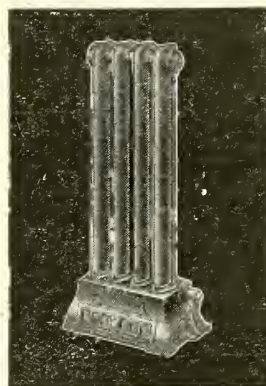
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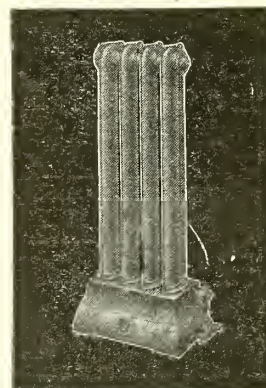
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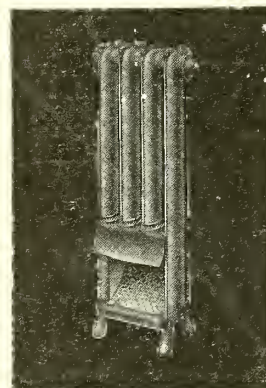
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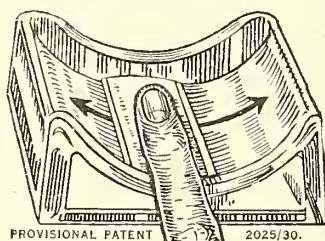
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Make up your mind now to do a big business this winter in both the lamp and Maw's Aero-Cotarol Vaporant. Start right. Order your stock at once. With a 30s. order for Drip - Feed

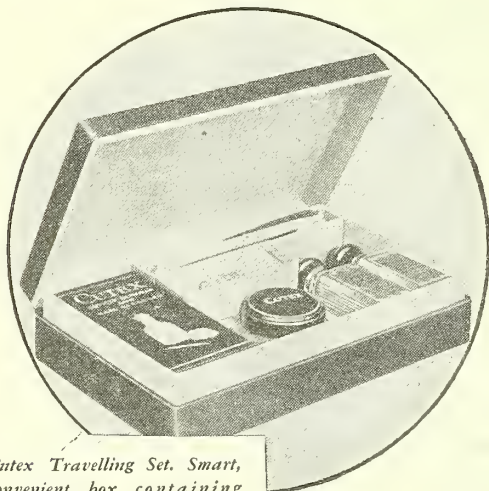
Lamps and Aero-Cotarol you will receive a free demonstration lamp. Put it on your counter, and let it burn there continuously.

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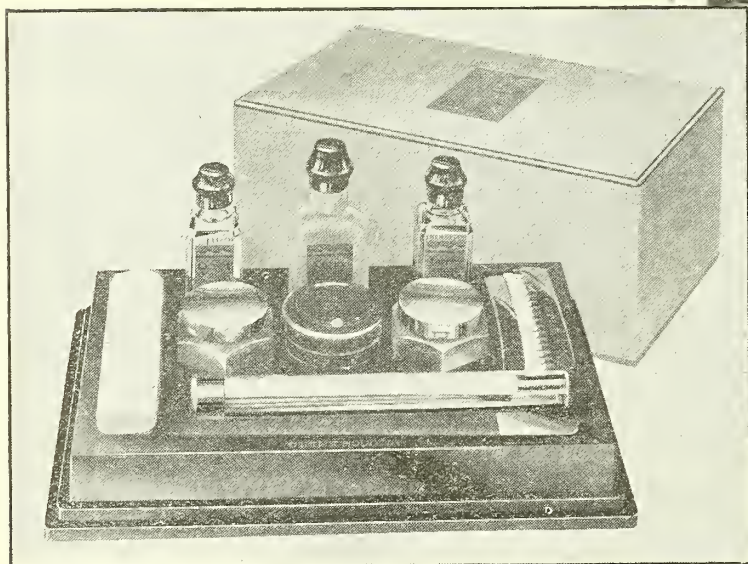
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and Barnet.



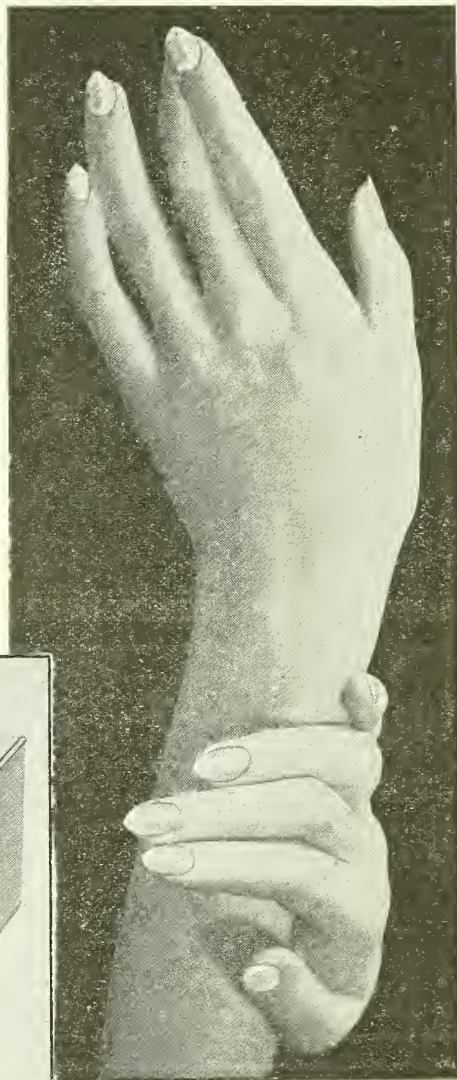
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Cutex Perfumed Liquid Polish keeps lovely nails alluringly sparkling for days. This unrivalled polish, unlike many liquid polishes, never peels or discolours on the nails.

CUTEX

The first

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regarding your customer's charm and purse . . .

*When she buys Cutex she gets
the world's finest nail polish . . .*

FOR generations your customers have known the fine quality and the fair prices of Cutex manicure preparations.

What they may not have known is that this exquisite quality has long been the despair of many envious imitators.

Two years ago, Cutex introduced to the women of England a refinement in liquid nail polish — making it delicately perfumed, so that its mild fragrance made it a pleasure to use. But this was not achieved at the expense of quality.

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When your customer buys Cutex, she gets the world's finest polish. Cutex Perfumed Polish is more than just a perfume with polishing claims. It is first the world's finest polish, made so by years of research and testing. Its fleeting fragrance will not clash with any other odour.

*Cutex attractive, durable flacons mean less breakage for
you and your customer*

Having paid good money for a manicure preparation, your customer has a right to expect its container to withstand ordinary usage. Therefore, the flacons containing Cutex Perfumed Polish are made strong, to endure until empty.



*Cutex Kit, containing Perfumed Liquid
Polish and Perfumed Polish Remover, 2/6*

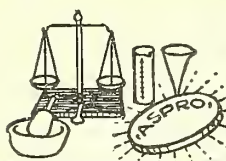
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Perfumed Liquid Polish ever made

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have mislaid your copy, write for another.*



The 'Aspro' Review

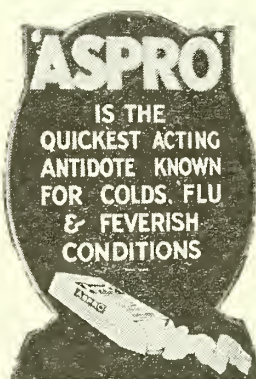


17% Extra Profits.

"British to the Core"

New Series Display Features.

Send **COUPON** below for this New
'ASPRO' Window Display



Printed in ten
colours



By featuring 'ASPRO' Displays in your window you link up your store to the largest Medicine Publicity Campaign in the World

Following the success of our recent Man-Nurse and Child Display for Chemists and the many letters of appreciation received we have pleasure in announcing a new 3-piece series now ready for distribution. These productions combine suggestion and reasons why customers should enter your store to purchase 'ASPRO.' The sooner you co-operate by featuring 'ASPRO' Displays—the greater is your opportunity of benefiting by the consumer demand created by our huge advertising campaign. Be first in the field by showing this new 3-Piece Display. Simply fill in name and address and post to Gollin & Co. Pty., Ltd., 'Aspro' Dept., Slough, Bucks. The displays will be despatched to you promptly.

17% Extra through buying 'ASPRO' on Bonus Terms.

The 'ASPRO' bonus on unstamped 'ASPRO' is as follows:— On a one gross order for 10's the bonus is one dozen packets; on half-gross order, ½ dozen packets. Half-gross 10's is the minimum order accepted for Bonus purposes. On a 1 gross order for 27's the bonus is 2 dozen packets, on a half-gross order 1 dozen packets, and on a quarter-gross order ½ dozen packets. A quarter-gross order is the minimum quantity. There is no bonus on 5's or 60's.

The conditions are that the Chemist who buys on these terms undertakes to display 'ASPRO' Advertising matter in his shop window for 14 days, and sell at advertised prices. As 'ASPRO' is so extensively

advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO,' but should enable the chemist's staff to make other sales to these customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., single lots 6 dozen 10's or 3 dozen 27's will qualify the Chemist.

You order as follows:—We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler, so that we may forward the order on and the Bonus will be supplied direct by us.

Ordinary prices for unstamped 'ASPRO' are as follows:—

- | | |
|---------------------------------|---------|
| 3d. size (containing 5 tablets) | 2/3 doz |
| 6d. " (containing 10 tablets) | 4/6 " |
| 1/3 " (containing 27 tablets) | 11/6 " |
| 2/6 " (containing 60 tablets) | 21/- " |
| Less 2½% 30 days. | |

NOTE.—The 1/3 size contains two extra tablets. 2/6 size ten extra tablets.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made by ASPRO LIMITED,
SLOUGH, England.

Agents:

GOLLIN & CO. PTY. LTD.
('Aspro' Dept.),
SLOUGH, BUCKS.

Phone: Slough 6C8.

No proprietary right is claimed in the method of manufacture or the formula.

COUPON for New 3-Piece 'ASPRO' Display.
GOLLIN & Co. PTY. LTD. ('Aspro' Dept.), SLOUGH, BUCKS.
Please send me above displays.
Name
Address



C. & D.

VETERINARY SALES ALMOST UNEXPLORED BY CHEMISTS

If the subject matter of this issue of the "C. & D." influences you to pay more attention to Veterinary Sales (as it should do), the following abridged price list of counter specialities will be a valuable aid.

	Doz.		Doz.
Beast Dressing Reputed pts.	10 0	Male Fern Extract (Ayrton) 1-oz.	9 0
"Cantharides" Horse Blister qts.	14 6	" " 2-oz.	14 0
Castor Oil 2-oz.	7 6	" " 4-oz.	24 0
"Cattle Salve" Reputed pts.	10 3	Mange Lotion Reputed pts.	12 6
" " qts.	15 6	Paraffin Lyceoil "	12 6
Cod Liver Oil 1-lb.	7 6	Pig Powders 1-lb.	6 0
" " 1-lb.	12 0	" " Fattening 1-lb.	6 0
Condition Powders Reputed pts.	8 6	Poultry Spice 1-lb.	6 6
Cough Powders. Aconite qts.	14 0	" " 1 1/2 lbs.	12 0
Cow Drenches— 1-lb.	10 6	Red Horse Blister 1-oz.	6 0
Cleansing 1-lb.	8 0	" " 2-oz.	8 0
Drying 1-lb.	9 0	Ringworm Ointment. Lever Lidded Tins	5-oz. 6 0
Felon 1-lb.	9 0	" " 10-oz.	10 6
Nourishing 1-lb.	9 0	" " " " " " " "	4 3
Purging 1-lb.	7 6	Roup and Gape Pellets "	4 3
Red (Fever) Drench 1-lb.	5 6	Salve. (See under Cattle Salve)	
Dog Pills, "Kennel" Series. (See below)		Scour Powders 4's	7 6
Dog Soap, Jano's Reputed pts.	9 0	" " Specific 8-oz.	10 6
Fly and Maggot Oil qts.	12 6	" " 16-oz.	18 6
Foothalt Remedy (Sheep) 5-oz.	8 0	Trower's Pig Powders 6's	3 6
Gall Cure (Horses) 2-oz.	4 0	" " " " " " " "	12's 6 0
Gape Cure (Poultry) "	5 0	Vet's Embrocation 5-oz.	8 0
Horse Balls, "Newmarket" (Prices quoted are per doz.)		" " " " " " " "	10-oz. 12 0
Alternative (3/-); Astringent (3/6); Condition (3/-); Cough		Worm Powders. Dogs 6's	4 0
(5/-); Diuretic (3/6); Fever (4/-); Grease and Humour		" " " " " " " "	12's 6 6
(3/-); Physic (3/- to 4/-); Tonic (4/-); Worm (4/-).		" " " " " " " "	6's 9 0
Leeming's Essence 1-oz.	6 6	" " " " " " " "	12's 14 6
" " 2-oz.	8 6	" " " " " " " "	6's 3 3
		" " " " " " " "	12's 5 6
		Worm and Condition Powders. For	
		Horses 16's	10 0

"Kennel" Series of DOG PILLS

*Slide Boxes of twelve with
Pictorial Label.*

APERIENT COUGH
ALTERATIVE DISTEMPER
ASTRINGENT TONIC
CONDITION WORM

Name and address on 6 dozen
Assorted Varieties.

Per doz. 4/6 Per gross 51/-

**AYRTON
SAUNDERS
& CO., LTD.
LIVERPOOL, ENG.**



Behind
every
MAZDA
Lamp
is the B.T.H.
assurance
of high
quality
and good
service

MADE IN ENGLAND.

REDUCED PRICES
PEARL MAZDA LAMPS

(Standard Voltages)

15w. 25, 40, 60w. 100w.

2/- 1/10 3/-

3311

Ask your dealer for new Leaflet (L.504)
giving complete list of reduced prices.

THE BRITISH THOMSON-HOUSTON CO., LTD.,
(SUBSIDIARY OF ASSOCIATED ELECTRICAL INDUSTRIES LIMITED)
CROWN HOUSE, ALDWYCH, LONDON, W.C.2

WE SUPPLY
DECORATED TINS
FOR PACKING
OINTMENTS
AND OTHER PRODUCTS.

SAMPLES AND PRICES UPON REQUEST.

THE CALDICOT TIN STAMPING WORKS LTD.
CALDICOT, Nr. CHEPSTOW, Mon.

**THE PREMIER
CHEMISTS' SHOPFITTERS**
Specialists in Design and Manufacture of
CHEMISTS' SHOPFRONTS & FITTINGS

Established over half a century.

SHOW-CASES

For Immediate Dispatch

H. MILLS & SONS, LTD.
163-5 OLD ST., LONDON, E.C.1.

KARL HÖLL A.-G.
Langenfeld, near Cologne, Germany
EXPORT TO ENGLAND SINCE 1884.



Manufacturers of :—
TUBES of all kinds,
plain and decorated.
SPRINKLER TOPS of
all sizes and styles.



IMPORTANT: When asking
for quotations send samples already used and
state quantities required. Goods will arrive
in 3-4 days with direct steamer from Cologne.

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's
Ailments is advertised so extensively in the
daily and weekly Press as to bring mothers to
the retailer without effort on his part.

The selling has been done before the mother
reaches the chemist, and, having supplied her, it
is only common sense to claim she will buy other
family necessaries from him. Moreover, the con-
tinuous demand for it produces a quick turnover.

For Direct Terms apply to—

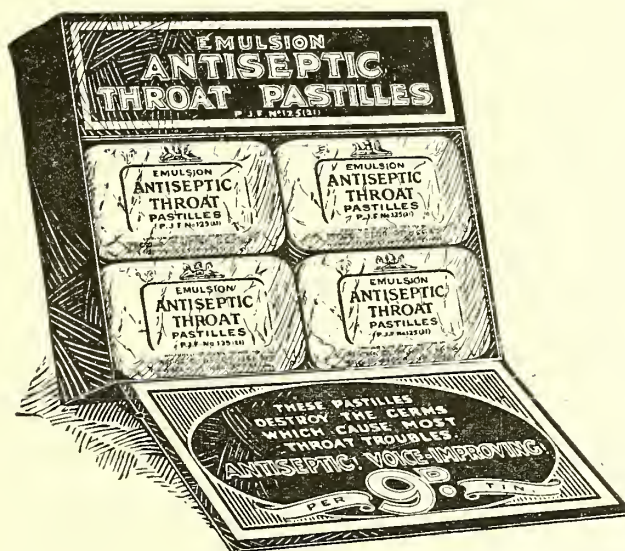
OSCAR SCRUTON & CO., YORK



EMULSION Pastilles

The "Marble" Tin Series

IT pays to display and recommend Emulsion Pastilles in "Marble" tins — to associate them definitely with your own pharmacy. The quality of the pastilles themselves is vouched for by many years of consistent popularity. The pack is exceptionally attractive and your customers will appreciate the evident care in presentation which is the outward and visible sign of extra care in preparation. The *minimum* profit is nearly 40% on selling price. In harmony with the display outer illustrated, a striking and convenient showstand is available for the counter. Full particulars on request.



LIST OF TITLES

ANTISEPTIC THROAT
BLACKCURRANT
and GLYCERINE
BRONCHIAL
CATARRH
CHILDREN'S THROAT
DELECTABLE
EUCALYPTUS
GLYCERINE
GLYCERINE &
BLACKBERRY
MENTHOL
MENTHOL &
EUCALYPTUS
VOICE

The display outer designed and lettered in black, white and gold.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N1
ESTABLISHED 1797.

D/545

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MERCOLIZED WAX

— : for the Complexion : —

and

STALLAX

— : a Shampoo : —

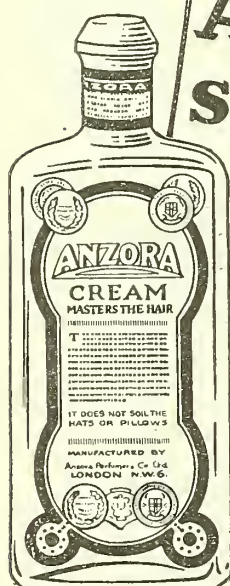
TWO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

Both are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

Order through your Wholesaler, or direct from :

DEARBORN (1923) LIMITED
37 GRAY'S INN ROAD, LONDON, W.C.1.

Telephone - - - HOLBORN 9669



ANZORA
sales are
soaring!

Consistent advertising is sending Anzora sales soaring. Every month sees another leap. All over the country retailers are increasing orders and making bigger profits.

Come in on the rising tide of Anzora sales. Keep these perfect fixatives prominently displayed. We are out to help you—let us know what showcards and cut-outs you need.

ANZORA
MASTERS THE HAIR

TRADE TERMS :

12/- doz.

Retail at 18/-

20/- doz.

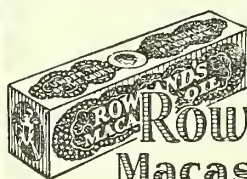
Retail at 30/-

A supply of Attractive Showcards and Cut-outs for Window Displays sent post free.

ANZORA PERFUMERY CO., Ltd. - LONDON, N.W.6

For thinning hair

Recommend Rowland's Macassar Oil, the favourite of 137 years. It keeps the hair healthy, and staves off greyiness and baldness.



RETAIL.

3/6, 7/- & 10/6

P.A.T.A.

Rowland's
Macassar Oil

Red for dark hair
 Golden for fair or grey hair

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1
 RM2T

2D.
EACH

TEMMAH

2D.
EACH

To-day's most popular

SAFETY RAZOR BLADE
 TO FIT ALL 3-PRONGED HOLDERS

Compare with other makes **THE PROFITS YOU EARN** on these terms :—

15s. Per Gross, less 10% Discount

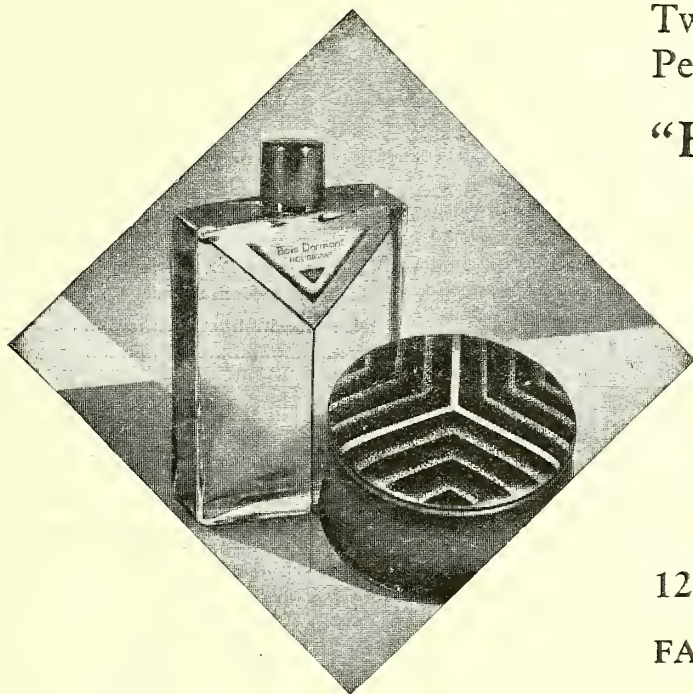
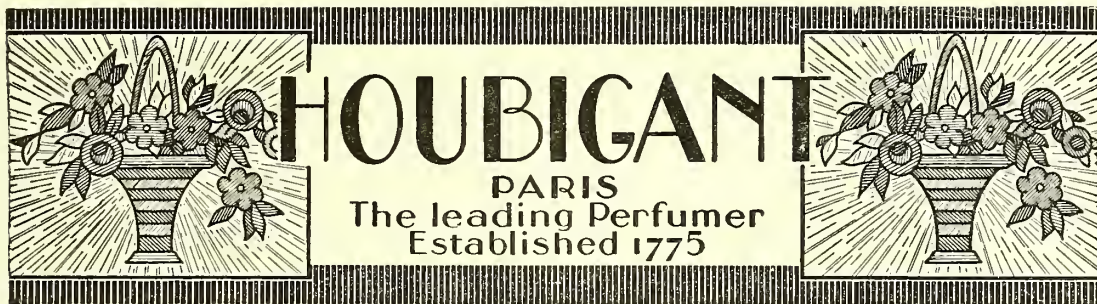
CASH WITH ORDER OR C.O.D.

PLUS BONUS OF 2 DOZ. PER GROSS,

Orders executed on S/R basis nett.

TEMMAH PRODUCTS, LTD.

14-16 LOWER CLAPTON ROAD, LONDON, E.5.



Two established favourite
Perfumes by HOUBIGANT:

“BOIS DORMANT”

To retail at

3/3, 13/6, 26/-, 48/-

FACE POWDER

(large box) - 2/-

“AU MATIN”

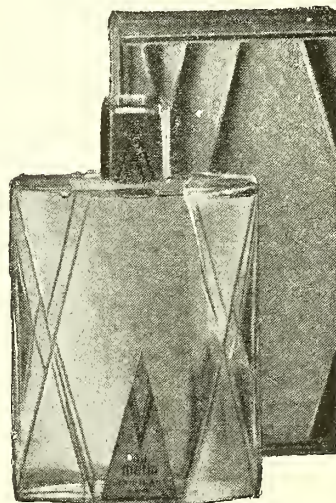
To retail at

12/-, 23/-, 46/- and 52/6

FACE POWDER (large box) 3/3

*Do not fail to see our
REPRESENTATIVE who will show
you samples of New Lines suitable for
the Xmas Trade, which it will pay
you to STOCK and DISPLAY.*

PARFUMERIES DE PARIS, LTD.
LARDEN ROAD, ACTON, W.3



YOUR NAME AT NIGHT IN LETTERS OF LIGHT



How many of the thousands who pass your windows every day, stop to give your displays a second glance? How many remember your name? Have an electric fascia, spelling out your name in light and impressing it upon the public mind. Facias and illuminated signs are not heavy in first cost, are inexpensive to operate and pay for themselves many times over.

Ask for further particulars from your local Electric Shop or Supply Undertaking.



To The British Electrical Development Association Inc., 15, Savoy Street, London, W.C. (Temple Bar 4569.)

Please send free illustrated book, "How to Light the Modern Shop."

Name.....

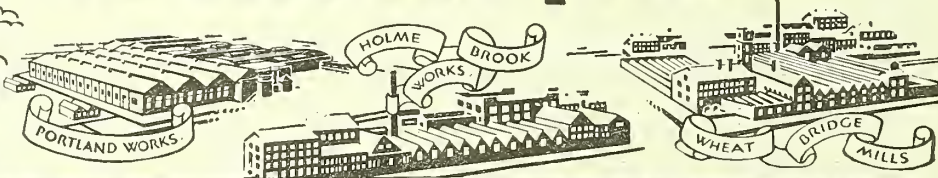
Address.....FDA/471

ELECTRIC LIGHT FOR SHOP WINDOWS · FACIAS · SIGNS AND INTERIORS

Announcement of The British Electrical Development Association, Inc., 15 Savoy Street, London, W.C.2. Telephone: Temple Bar 4569



Chesterfield



The Town of the Crooked Steeple and the Cardboard Box Industry

Goods well packed are half sold, and easier selling means more sales. We have expert box designers who specialise in designing boxes which are salesmen as well as packages. If therefore you have any packing troubles send them to CHESTERFIELD where our 90 years experience is at your disposal.

ROBINSON & SONS, LTD., WHEATBRIDGE MILLS, CHESTERFIELD.
MANUFACTURERS OF ROUND, OVAL, SQUARE AND FOLDING CARDBOARD BOXES.

900 workers are employed in the above factories.

Take advantage of this great



**BONUS
OFFER**

ON

**SHERLEY'S
TONIC & CONDITION POWDERS
WORM CAPSULES & POWDERS
LACTOL**

IN return for your loyal co-operation which has resulted in greatly increased sales for Tonic Powders, Worm Medicines and Lactol, we are making a Special Bonus Offer.

You are offered choice of
three special parcels which show

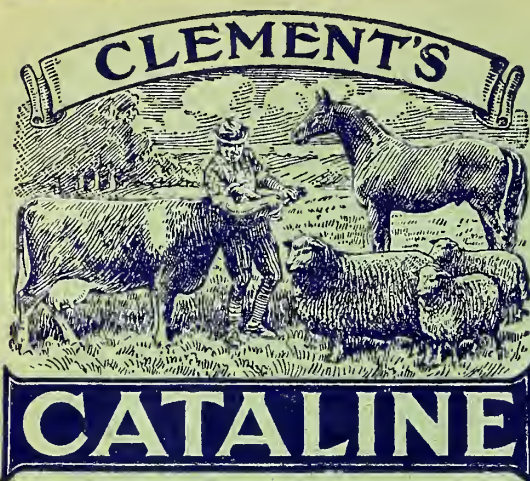
UP TO 74% PROFIT ON COST

Select yours now!

You can recommend Sherley's products with every confidence. They are made by fully qualified analytical and pharmaceutical chemists under the advice of a first-class veterinary expert.

Write now for FREE BROCHURE which
gives full particulars of this Bonus Offer.

A. F. SHERLEY & CO. LTD., 18, Marshalsea Road, London, S.E.1.



This Medicine is a certain cure for many of the most distressing ills to which Horse and Cattle Flesh is heir. It surpasses all other Remedies in its promptness of action.

WHY CATALINE PAYS TO STOCK.

BECAUSE it enjoys the largest sale of any Cattle Medicine Preparation and is on the P.A.T.A.

BECAUSE it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

BECAUSE it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

BECAUSE we do not employ travellers to call on Farmers or solicit orders at cattle fairs or markets.

One size, retailed at face value, viz.

PER **3/9** BOTT.

*Terms - Cash with order.
Carriage paid. Cases free.*

1 doz., 36/- per doz. 6 doz., 35/- per doz.
3 doz., 35/6 12 doz., 34/6 „

Stocked by most Wholesale Houses.

THE CATALINE CO. LTD.
BRISTOL.

BATTLE'S PROFITABLE LINES

specially packed for the Trade

STOKALIN

A SURE REMEDY

for all kinds of

FEVER and INFLAMMATION in COWS
and CALVES, SHEEP, PIGS, HORSES

COW or UDDER SALVE

LAMBING OILS

CARBOLISED OILS

EMBROCATION (Household, Footballers', Vety.)

LYSOL DISINFECTANTS

Large Profits. Special own name packing.

Write to :—

BATTLE, HAYWARD & BOWER
LINCOLN

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment.
Edos, or Tasteless Purging Powder.

HARVEY'S

Great

*Protected Prices
(P.A.T.A.)*

Remedies for the Horse



HARVEY'S

Koppos Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Skin Specific for Dogs.

Of all the leading Druggists' Sundries Houses
HARVEY & COMPANY, Ltd., Dublin

THE FAMOUS

CELL'S FOOT-ROT CONTINENT

13/6 per doz.	Retail 1/6
27/-	3/-
63/-	7/-
117/-	13/-

HIRST, BROOKE & HIRST, Ltd.

MILLGARTH MILLS, LEEDS.

Phone 20374 (3 lines)

FOOT-ROT

*One Application
Effects a Cure
in
ordinary cases*

SAFETY means SUCCESS

A CLEAN UDDER MEANS CLEAN SWEET MILK

Agents wanted for

"KINOSALVE"

THE FARMER'S FRIEND IN A HUNDRED TROUBLES.

No dairy farmer or cattle breeder can afford to be without this invaluable preparation. As an antiseptic healer and cleanser of cows' udders it has no equal. It purifies without taint. On many large dairy farms it is in use every day. For cuts and wounds on animals it is unequalled. This line will win you many firm friends among farmers.

We send free sample tins and leaflets for distribution.

"KINOSALVE" is used on DAIRY FARMS in all parts of the world.

RETAIL PRICES 1/6 and 2/6 Wholesale 10/- and 18/-

ALSO SUPPLIED IN BULK FOR LARGE DAIRIES.

Make Application for AGENCY TO SOLE PROPRIETOR AND MANUFACTURER:

ROBERT BLACKIE

WHOLESALE
MANUFACTURING CHEMIST

Telephone:
HOP 2422
(2 lines)

SHEN WORKS, TOWER BRIDGE RD., LONDON, S.E.1

Telegrams: "USHENSUNA" LONDON.

Applications for Agencies in Scotland should be addressed to

MESSRS. MADDOX, ALEXANDER & CO., 53 WATERLOO STREET, GLASGOW.

WE ARE CREATING THE DEMAND—are you carrying stocks?

BIRD'S BOTANIC ESSENCE

Nearly a century and a half reputation for keeping horses on their feet whilst curing them of Lameness, etc.

Retail 2/6 per bottle Trade NOW 21/- doz.

GET IT FROM YOUR WHOLESALE OR WRITE DIRECT TO:

BIRD & STOREY, Veterinary Chemists

42 EAST CASTLE STREET, LONDON, W.1

TELEPHONE: MUSEUM 2785

NALDIRE'S Prize Medal DOG SOAP

TABLETS 8d. and 1/4.

NALDIRE'S Worm Powders for Dogs

Packets, 1/3, 2/6, 4/3 and 5/6.

Offices: 23 PANTON STREET,
HAYMARKET,
LONDON, S.W.1

WRIGHT & HOLDSWORTH
Sole Manufacturers and Proprietors.

NOW available for retail

★ NEW BUSINESS with ★ NEW PROFITS



MARTINMILK, a superior milk food for dogs, puppies and cats, made by the makers of Bob Martin's Condition Powders, is now packed in 1/8d. size tins, and brought within the reach of every dog owner.

After many years' consistent advertising of Bob Martin's Condition Powders, dog owners have been educated up to a point where they can appreciate the importance of a proper milk food as part of their dog's everyday diet. Consequently, MartinMilk is now made available for retail in a convenient size tin. The business which you will do in MartinMilk will be almost entirely new business. Fanciers and Breeders will, of course, be ready buyers, but the biggest demand will come from the people who are already coming to you for Bob Martin's Condition Powders.



MartinMilk

retail 1/8
terms 15/6

This display stand holds one tin of MartinMilk and measures under eight inches. One is included with every dozen MartinMilk.

The

DISPLAY £1 PARCEL

is strongly recommended to those who have not yet taken up a complete range of Bob Martin preparations. The retail value is £1 : 9 : 0 and contents are:—

2 doz. 6d. Bob Martin's Tasteless Condition Powders
1/2 doz. Small Strength 1/10 1/2
1 " Medium " 3/9
1/2 " Large " 1/10 1/2

	s.	d.
1/2 doz. 6d. Distemper Powders	7	6
" 6d. Worm Powders	1	10 1/2
" 6d. Worm Tablets	1	1 1/2
" 1/- '92 Ointment	2	3
" 6d. Cleansfur	1	1 1/2
" 6d. Antiseptic Dog Soap	1	1 1/2
" 1/8d. MartinMilk	3	10 1/2

Carriage Paid, in the United Kingdom.

£1 0 0

The display material accompanying this parcel includes a three-piece screen, counter cards and one dozen copies of the 32-page booklet, **BOB MARTIN on DOGS**, packed in a handsome Display Container.

A very extensive range of Bob Martin display material is at your service, including Display Screens, Counter Cards, etc., which your Wholesale House cannot conveniently pack with goods. If you will make direct application to Southport for display material your requirements will be supplied by return mail.

BOB MARTIN LTD.

Makers of Dog Foods and Medicines since 1892
SOUTHPORT, ENG.



IMPORTANT TO ALL PHARMACISTS

YOU STOCK



PRODUCTS

but do you know that many pharmacists both in TOWN and country are building up an excellent business in :—

Monsol VETERINARY Liquid, Monsol VETERINARY Ointment, Monsol VETERINARY Capsules, Monsol VETERINARY Pessaries, and Monsol VETERINARY Dry Shampoo Powder ?

The Dry Shampoo is splendid for dogs. Your customers will thank you for introducing it.

For further particulars write

THE MOND STAFFORDSHIRE REFINING Co. Ltd.
Abbey House, Westminster, London, S.W.1



RADIOL

CURES Lameness

due to sprained tendons, spavins, etc.

NO BLISTERING—NO LAYING UP.

It counteracts the effects of wear and tear and has met with complete success in Polo Studs, Hunting Stables, etc.

AN EXCELLENT CHEMISTS' LINE.

Write for free copies of our Booklets written and illustrated by a Veterinary Surgeon. They will interest you. Also special scheme for creating sales in hunting districts.

Advertised in Agricultural Journals.

WRITE NOW TO

Dept. R.X., The Radiol Co.
31 East Hill, Wandsworth, London, S.W.18.

SPECIAL OFFER OF RODINE

HAVE YOU SECURED YOUR BONUS ?

Latest date **OCTOBER 15th.**

DON'T MISS THIS OPPORTUNITY !

Write now to the Rodine Proprietor—

THOS. HARLEY, M.P.S.

Manufacturing Chemist

Rodine Works, PERTH, Scotland.



*For Agricultural Requirements
and Veterinary Remedies*

GET INTO TOUCH WITH

LOFTHOUSE & SALTMER

LIMITED

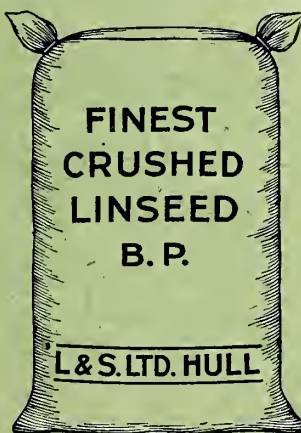
WHOLESALE DRUGGISTS,
DRUG & SPICE GRINDERS, HULL

List of Products

Powders for Veterinary Use

ALOE, BARBADOES
ANISEED
ANTIMONY BLACK
do. CROCUS
CAPSICUM
CALUMBA
CARAWAY
COLOCYNTH
CORIANDER
CUMMIN
FENNEL
FENUGREEK
GENTIAN
GINGER
GRAINS OF PARADISE
HELLEBORE BLACK
do. WHITE
JUNIPER BERRY
LICORICE
LOCUST BEAN
MADDER CROP & MULL
TURMERIC

*All of the Finest
Guaranteed Quality.*



Contains from 36% to 38% of Oil,
and yields an ash below the B.P.
maximum limit; it is uniformly
crushed, even in appearance and
light in colour.

Makers of the Original



In 1, 2 4, 7, 14 lb. tins and
28 lb. buckets.

Specialities

CARBON
TETRACHLORIDE
CAPSULES. For Fluke in Sheep.

Genuine COD LIVER OIL
FOR CATTLE

½, 1, 2 & 5 gall. tins. 25 gall. barrels

Cod Liver Oil Condiment
1 cwt. kegs.

Cough Electuary for Horses
2/6 tins.

DRYING SALVE for Cows
EMBROCATIONS

FOOT ROT OINTMENT

HORSE BALLS
Coated, or Wrapped. "Own Name."

HORSE POWDERS
Tins and Packets.

Iodized MINERAL SALT
1 cwt. kegs. 28 and 56 lb. bags.

RINGWORM Ointment

PESSARIES (Medicated)
for Cows and Sheep

Packers of
WATER - GLASS

ASK FOR OUR AUTUMN CATALOGUE

BATTLE'S VERMIN KILLER

Of all Patent Medicine
Houses at 3/-, 5/6, 9/-,
18/- and 36/- per dozen.

In packets at 5d., 9d.,
1/3, 2/6 and 5/- each.
(P.A.T.A.)

The *sure* destructive agent which may be confidently
recommended by Chemists for quick clearance of rats
and mice. (*Users' testimonials on request.*)

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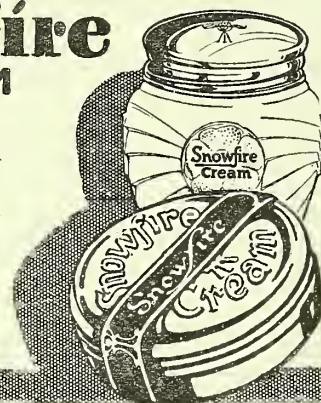
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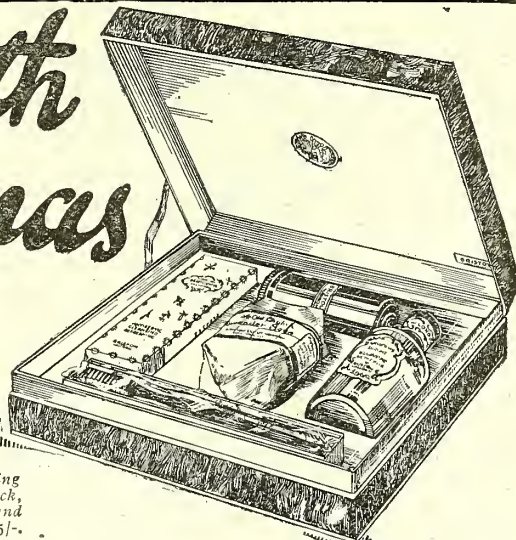
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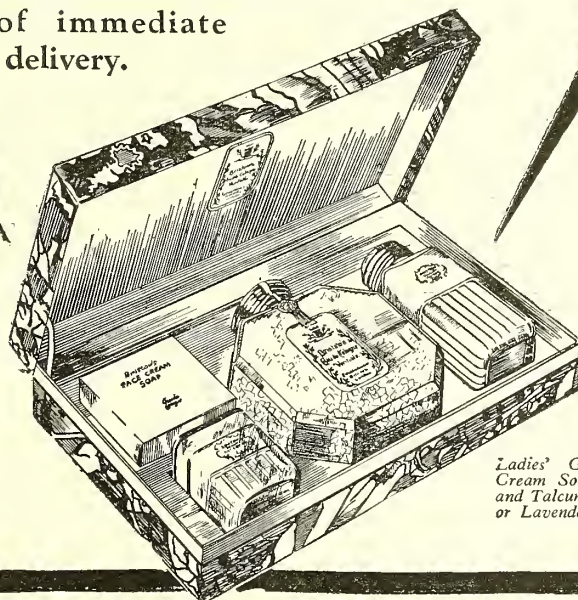
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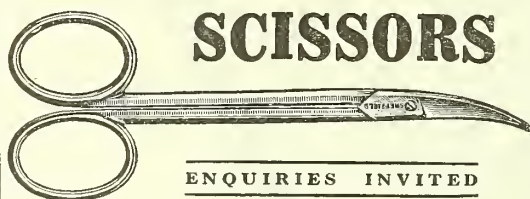
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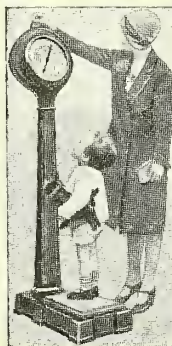
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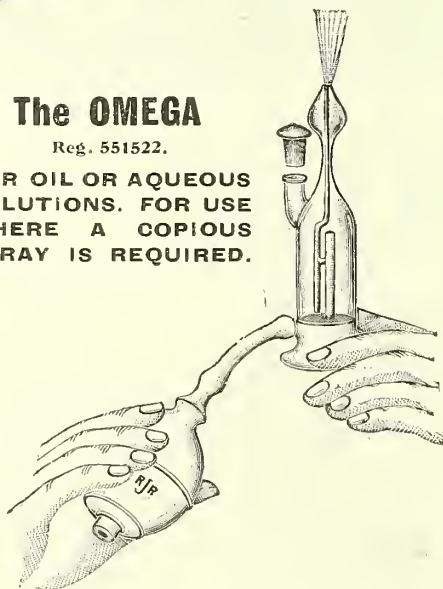
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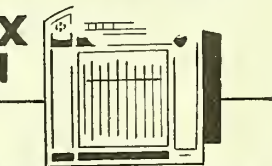
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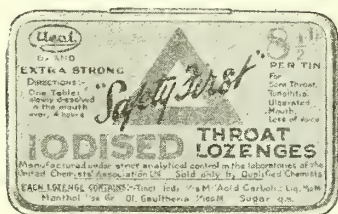
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English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Imported Fertilisers

The Standing Committee of the Board of Trade held an inquiry at the Board of Trade Offices, Westminster, on October 6, into an application by the Federation of Bone Users and Allied Trades, Ltd., that imported fertilisers or feeding stuffs should bear an indication of origin under the provisions of the Merchandise Marks Act. Mr. R. Duncalfe, chairman of the federation, said that they represented almost 95 per cent. of the trade. Foreign competition had increased during the past two years. The imported materials came here in packages and could not be distinguished from the home materials. The applicants suggested that an indication of origin should be stencilled on the package. The cost would be negligible. There was no opposition, and, after evidence had been heard *in camera*, the inquiry was closed.

Exhibition of Inventions

Several inventions of interest to the drug trade are to be seen at the International Exhibition of Inventions, Central Hall, Westminster, London, S.W.1, from October 1 until October 11 inclusive. One of the most ingenious novelties consists of a fitment which, when inserted into any funnel, will indicate when the receptacle is full. Another clever idea is a combined razor-blade strop and hone embodying no mechanical parts and requiring no dressing. A useful all-night inhaler made of rubber and held in position by an adjustable rubber band is shown. In the lower hall such devices as an expanding bottle-brush, a rotary tooth-brush, a cork extractor and a foot-rot cure are of interest to the chemist. A photographic idea is to be found in a device for tightening the film on the winding spool.

Inquests

An inquest was held at Kensington, London, W., on October 3, on the body of Flora E. Matley, a teacher of languages. It was stated in evidence that death was due to poisoning by "yellow cyanide of potassium." Verdict, "Suicide while of unsound mind."

At Liverpool, on October 8, an inquest was held on the body of Mrs. Annie F. Armishaw, who, the evidence showed, died from an overdose of medinal. It was stated that Mrs. Armishaw had purchased 1,700 medinal tablets in three years, and that the purchases had been recorded in a chemist's poison-register. The medical attendant of Mrs. Armishaw said that he had no idea that she was taking so many tablets. The Coroner: But you must have realised when she had been unconscious three times that things were becoming desperate. It was no use your standing over her and telling her she was a silly woman. You should have done something to stop her supply. The coroner said that so far as the chemist was concerned the Act had been complied with, but the jury might express their opinion on whether the spirit of the law had been complied with. The jury returned an open verdict, and suggested that the depositions should be sent to the Home Office, advising a tightening up of the regulations regarding the sale of drugs.

Birmingham

Mr. D. J. Cameron, M.A., has been appointed registrar of Birmingham University in place of the late Mr. J. H. Costain, M.A.

The Birmingham Chemists' Football Club, which has joined the Birmingham and District Wednesday Amateur Association Football League, commenced its season on September 24. The result of the first game was a win for the chemists by three goals to one against West Bromwich Postal.

More players are, however, urgently needed, and young men in the district interested in the game are requested to communicate with the secretary, Mr. W. H. Roden, 59 Lichfield Road, Aston, Birmingham.

Cardiff

Mr. Richard A. Mogg (son of Mr. A. T. Mogg, Meteor Street), who is a medical student at the University of South Wales and Monmouthshire, was successful at the

terminal examination for the first-year students in winning the Dr. Price prize, value £50.

Mr. and Mrs. S. W. Hague recently gave a party to celebrate the twenty-first birthday of their only daughter, Miss Ida Hague. The guests spent a happy evening at the St. Augustine's Hall, Rumney, which was decorated for the occasion with the colours of the school at which Miss Hague received her education. Among those present were: Mr. and Mrs. J. Murray, Mr. and Mrs. E. G. T. Loyley, Mr. and Mrs. T. J. Badgett, Mr. and Mrs. Giles, Mr. and Mrs. Yardley, Mr. and Mrs. Trevor Phillips, Mr. and Mrs. Seymour, Mr. and Mrs. Sam Thomas, Mr. and Mrs. Augustine, Mr. and Mrs. Davies, Mrs. Parrott, Misses Masie Murray, Marjorie Murray, Doreen Thomas, Cora Smith, Doris Pamley and Gladys Hosgood, and Messrs. Seaton Burridge, Vivian Jones, McLachlan, Eric Kay, Aubrey Davies and Edgar Seel.

On October 1 the Cardiff Pharmacists' Golf Club held their fourth annual open meeting on the links of the Cardiff Golf Club, Penylan. A score of competitors took part. The winner, Mr. F. B. Chalmers (Griffithstown) was declared the holder for the ensuing year of the "Francis Newbery" silver challenge cup, and was presented with a replica by Mr. E. G. T. Loyley (director and manager of the Cardiff branch of Francis Newbery & Sons, Ltd.). The runner up was Mr. J. Murray, who was presented with a box of golf balls. The meeting was held in order to augment the funds of the Pharmaceutical Society's Benevolent Fund. The scores were:—

Mr. F. B. Chalmers (Griffithstown)	80-8=72
Mr. J. Murray (Cardiff)	87-12=75
Miss M. Murray (Cardiff)	95-19=76
Mr. A. S. Gordon (Cardiff)	88-10=78
Mr. Hyatt Jenkins (Treherbert)	94-16=78
Mr. R. H. Nix (Cardiff)	82-3=79
Mr. R. L. Houkins (Barry)	97-18=79
Mr. C. Allensen (Dinas Powis)	103-24=79
Mr. T. J. Fowler (Cadroxton)	98-18=80
Mr. H. H. Husbands (Cardiff)	100-18=82

Mr. Murray was thanked for organising the event.

Liverpool

Mr. H. Humphreys Jones, F.I.C., Ph.C., principal of the Liverpool School of Pharmacy, has been elected president of the Welsh National Society of Liverpool.

Mr. E. F. W. Thorp, chemist and druggist, Market Street, Hoylake, who was suddenly taken ill while visiting Blackpool recently, has returned to his home.

Manchester

The Woolley Laboratories at Manchester University are to be opened on October 22.

The first annual reunion of past students of pharmacy of Manchester University will be held on October 29 at 8.30 p.m. at the Manchester Limited Restaurant, Cross Street. It is to take the form of a dinner, to be followed by a short entertainment; tickets, 7s. each, from the secretary, Pharmacy Department, University, Manchester.

A thoughtful letter from Mr. A. J. Espley, chemist and druggist (Thornbers (Chemists), Ltd., Accrington) appeared in "The Manchester Guardian" of October 4 on the subject of high retail prices caused, he contends, mainly by the popularity of branded goods. Mr. Espley mentioned that the chemist's turnover now consists of branded articles to the extent of 94 per cent., compared with a ratio of 20 per cent. before the war.

At the first annual meeting of the Co-operative Chemists' Association held recently in Manchester, it was announced that the Society intended manufacturing drugs and chemists' requirements at the Droylsden sundries work. The manufacturing processes would be supervised by a chemist fully qualified to supply all the pharmaceutical requirements of co-operators. Sir William Dudley, one of the directors, stated that it was intended to erect a factory on the top of the Droylsden works to cope with the extended manufacture and packing of the chemists' requirements.

The last meeting of the season of the Manchester and District Pharmaceutical Golfing Society took place at the Northenden Golf Club on October 1. Good weather prevailed and nearly twenty players and friends turned up. Eight pairs, composing the president's team and the captain's team, set out for the annual competition. The result was a win by one match for the captain's side. Mr. A. J. Pidd (president) was present during the afternoon, but was unable to remain for the evening. Supper was served under the chairmanship of the captain (Mr. E. N. Fox), who referred to Mr. Pidd and eulogised his work for the Society, placing on record the high esteem in which their president was held by all of them. Mr. Miller, in support, said they all greatly appreciated the splendid work done by Mr. Pidd. The captain announced that the tie between Messrs. Sturdy and Gardiner for the second prize at the Buxton meeting had been played off, resulting in a win for Mr. Sturdy. Mr. Fox said that they were honoured in having as their guests the president and the captain of the Northenden Golf Club, and also spoke in appreciative terms of the generosity and loyalty of Mr. John Cleworth. The prize given by Mr. Cleworth at the end



Photo]

[Cleworth

of each season for the three medal cards returning the lowest net aggregate was an excellent idea and greatly appreciated. Mr. J. W. Aves was the winner this year. Mr. Cleworth, in reply, said he was pleased to find that the prize he gave was some compensation for the golfer who, although playing good golf throughout the season, had been unfortunate in not having won either a first or second prize.

Miscellaneous

NATIONAL CHAMBER OF TRADE.—At the concluding session of the National Chamber of Trade Conference at Leamington Spa, on October 7, a Southend member moved that retail traders should refuse to give gifts in kind to church bazaars, and that they should reply to all appeals that such gifts were against the principles of fair trading. The speaker described as "a quiet method of blackmail" the action of persons who threatened the withdrawal of their custom unless retailers presented gifts to bazaars. The resolution was adopted. A further resolution was adopted stating that the chamber viewed with alarm the increasing tendency among manufacturers of various commodities to endeavour to promote sales by the offer of gifts in exchange for coupons. This practice, it was added, called for the most determined opposition.

IN THE COURTS.—At Blackburn, on October 1, William Uttley (35) was sentenced to four months' hard labour for obtaining money by false pretences. It was stated that Uttley had sold as a cure for poultry ailments, and as an insecticide, a mixture which, when analysed, was found to contain over 97 per cent. of water, 0.21 per cent. of caustic soda, and 2.39 per cent. of sodium carbonate.—In Swanage County Court recently, Randall & Son, Ltd.,

chemists, 1 Albion Place, obtained judgment in the sum of £18 is. against Major Thomas W. Shields, Shore Road, and on the defendant's counterclaim for £12.—At Bradford, recently, Harry Bell (23), laboratory assistant, pleaded "Guilty" to stealing raw opium, valued at £2 16s., belonging to Brook, Parker & Co., Ltd., wholesale chemists, and to supplying to Fred. Greaves (40), painter, who pleaded "Guilty" to being in unlawful possession and offering to supply it to others. Sentences were deferred.—In the Bow County Court, London, on October 3, an order for the payment of 12s. a month was made in the case of A. F. Walker, 41 Leyton Road, Stratford, E., described as an unqualified chemist, in respect of a judgment debt.

Scottish News

Brevities

The reports of the Northern Co-operative Society, Ltd., Aberdeen, for the half-years ended February 28 and August 31, 1930, show that £35,104 17s. was taken in the drug departments, an increase over the previous year of £497 is. 4d.

The Teaching Staff Committee of Robert Gordon's Colleges, Aberdeen, recommend the following appointments.—Assistant lecturer and demonstrator in School of Chemistry, Constance McDowell, B.Sc., Ph.D., Bradford; assistant lecturer and demonstrator in School of Pharmacy, Andrew Thorburn, B.Sc. (Pharm.), Ph.C., Swansea.

Officers of the Scottish Association of Insurance Committees have been elected for the ensuing year as follows:—*President*, Mr. David Bertram, West Lothian; *Vice-President*, Mr. John Hill, Glasgow; *Secretary and Treasurer*, Mr. W. M. Maxwell, Motherwell; *Executive Committee*, Mr. J. D. Wyllie, Ayr; Mr. A. Clark, Aberdeen; Mr. D. G. Stalker, Selkirk; Mr. Robert Anderson, Fife; Mr. E. D. Anderson, Renfrew; and Major G. Hicks, Bute (county representatives); Mr. T. J. Addley, Edinburgh; Sir Henry Keith, Hamilton; Mr. A. M. Craig, Aberdeen; Mr. David Duncan, Dundee; Mr. W. S. Philips, Glasgow; and ex-Bailie James MacDonald, Inverness (burgh representatives).

Irish News

Iodine from Kelp

Under the Free State Government's scheme for the co-operative marketing of kelp something like 2,000 tons of kelp has been gathered and purchased by the Department of Fisheries from the poorer sea-coast dwellers along the Western Ocean from Donegal to Kerry, averaging £7 a ton. This would mean that £14,000 had been distributed during the season. Some of the best kelp comes from Seafield, Quilty, County Clare, although it is far excelled by that from Tory Island, Donegal. The average price paid for kelp from mixed weed at Quilty would be from £7 to £7 10s., whilst advances of £14 a ton were paid on the kelp made from sea rods gathered by the Tory islanders. Under the Department's scheme about 300 tons was purchased in Connemara, whilst private firms accounted for another 100 tons, so that something like £1,800 has been distributed in this area alone. It is calculated that the Clare sea coast supplied between 600 and 700 tons of kelp this season, whilst for the entire Connemara coastline and Aran Islands nearly 600 tons had been gathered and sold during the period now coming to a close. The Department did not handle a great deal of the Aran kelp. A London company purchased more than half of it, and it is said that about 30s. per ton more than last year's price was paid. About 1,500 tons of the kelp has been stored in the new iodine factory at New Docks, Galway, and its conversion into iodine will begin in about a month, by which time the machinery will have been assembled.

Brevities

Sir Thomas Robinson (Hayes, Conyngham & Robinson, Ltd.) was a successful candidate at the recent municipal election in Dublin.

Larne chemists have agreed to close their premises at the following hours:—Monday, Wednesday, Thursday, Friday, at 7 p.m., Tuesday at 1 p.m., Saturday at 9 p.m. One shop will be open for the supply of medicines and surgical requisites during certain hours on Sundays and Tuesdays.

At a meeting of the committee of the Chemists' Branch of the Irish Union of Distributive Workers and Clerks, held recently, it was complained that a number of pharmacies in the Dublin area remain open until a late hour at night, with the result that the employees, a number of whom are women, are on duty for an unreasonable number of hours each day. Measures were considered which would guarantee chemists' assistants a limited number of hours' work each week. Arrangements were made to hold a general meeting of the Chemists' Branch in Cavendish House, Dublin, on October 14.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, October 12

Cardiff Pharmacists' Golf Club, Pyle and Kenfig Golf Club, open meeting for the Cardiff Pharmacists' Challenge Cup presented by The British Drug Houses, Ltd. Competitors for above cup will play in the morning. A medal mixed foursome for the "Torry" cup, open only to chemists in business, will be played in the afternoon. All members playing for the cup may pay 6s. 6d. to cover green fees, luncheon and tea. All non-playing members pay 1s. green fees and ordinary tariff prices.

Monday, October 13

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 5.30 p.m. A special course of lectures on "Some Newer Therapeutic Agents: Their Pharmacological Identification and Tests, with Some Account of Their Uses in Medicine," will be given by Dr. J. H. Burn (Director, Pharmacological Laboratories, Pharmaceutical Society), and on succeeding Mondays at 5.30 p.m. Tickets, for the course, members and student-associates gratis on application, registered apprentices or apprentices 5s., other persons 10s., from the secretary.

Tuesday, October 14

Liverpool School of Pharmacy, Old Students' Association, lecture theatre of the school. Mr. John Rae on "A New Colorimetric Test for Adrenalin" and Mr. Alec. Rae on "Sterilisation in Pharmacy."

Wednesday, October 15

Manchester, Salford and District Pharmacy Club, Clydesdale Club, Turner Street, at 8.30 p.m. Tickets, 2s. (inclusive), from Mr. A. E. Thorpe, 66 Chapel Street, Levenshulme, Manchester.

Pharmaceutical Society of Great Britain, Anglesey, North Caernarfonshire and Colwyn Bay Branch, British Hotel, Bangor, at 2.45 p.m. Agenda: Mr. Thomas Hardy (member of Council) on "The Pharmacy Bill"; and (time permitting) a report on the Cardiff Conference.

Pharmaceutical Society of Great Britain, Exeter and District Branch, Chamber of Commerce, Exeter, at 3.30 p.m. Mr. E. Quant on "The Qualification of Pharmacists."

Retail Pharmacists' Union, Devon Branch, Chamber of Commerce, Exeter, at 4.30 p.m. Annual meeting.

Thursday, October 16

Liverpool Chemists' Association and Branch of the Pharmaceutical Society, Royal Institution, Colquitt Street, at 8.30 p.m. Rev. Dr. Charles Budden, M.A., on "The Call of the Countryside."

Pharmaceutical Society of Great Britain, Sheffield and District Branch, Church House, St. James' Street, Sheffield, at 3 p.m. Meeting to discuss the "Departmental Report on the Poisons and Pharmacy Acts."

Western Pharmacists' Association, Beta Café, 65 Oxford Street, London, W. Annual reunion. Reception at 7 p.m. for 7.30 p.m., followed by supper and whist drive. Tickets 5s. each.

Associations' Winter Session

London (S.W.).—The first meeting of the session of the South-West London Chemists' Association and Branch of the Pharmaceutical Society was held on October 3, under the chairmanship of Miss A. T. Borrowman, Ph.C. Some forty members were present to hear an address on *How the Chemist is Affected by National Health Insurance* (see p. 463), delivered by Mrs. Jean K. Irvine, M.B.E., superintendent of the South-Eastern Pricing Office. Questions were asked by Mrs. Freke, Messrs. Browne, Gosling, James, Loxley, Rees, Shakerley, Wells and the secretary. A vote of thanks to the speaker, proposed by Mr. J. E. Monaghan, and seconded by Mr. H. G. Tibbett, was carried with acclamation.

Festivities

Croydon Pharmacists at Supper

THE winter session of the Croydon and District Branch of the Pharmaceutical Society and the Croydon Pharmacists' Association opened with a supper and concert at the Café Royal on October 1, attended by over seventy members and friends. The chairman of the branch (Mr. R. Ricketard) presided, and was supported by the president of the Association (Mr. W. O. McBryde), the vice-chairman of the branch (Mr. H. E. Chapman), the secretary (Mr. H. C. Neve), the treasurer (Mr. C. Dickinson), and members of the committee. Mr. J. Hugh Edwards, formerly M.P. for Accrington and a parliamentary colleague of the late Sir William Glyn-Jones, was also present. After the loyal toast had been honoured, the chairman expressed his and the committee's pleasure at so large an attendance, and hoped that the subsequent evening meetings would be equally well supported. He welcomed the guests, and referred particularly to Mr. Hugh Edwards, who had very materially helped Sir William Glyn-Jones in his fight to safeguard the chemists' interests under National Health Insurance. Mr. Edwards, in a delightful speech, emphasised the value of the chemist to the community, and suggested that pharmacists were of more importance to the public than they realised. He paid tribute to the qualities of the late Sir William Glyn-Jones, and dwelt on his untiring efforts in Parliament on behalf of pharmacy. The musical programme, organised by the secretary, was greatly appreciated.

French News

From the "C. & D." Paris Correspondent.

A RECENT decree has decided that Dover's powder, Dupuytren's and Ricord's (opiate) pills and extract of opium plaster shall no longer figure on Schedule II of the decree of September 14, 1916.

At the Paris Faculty of Pharmacy M. Hérissé has been nominated to the chair of Biological Chemistry and M. Sommelet to that of Hydrology and Hygiene. Both were assistant professors at the Faculty.

THE native conscripts of French Northern Africa who are pharmacy students may (according to a recent decree) now claim to serve as hospital orderlies. Those who have "eight inscriptions" (two years' study) may, by following a six months' special course, be subsequently nominated auxiliary pharmacists in a native regiment or an ambulance to terminate their military service.

THE Nationale-Réglementation (French P.A.T.A.) has noticed that some manufacturers duly protect the prices of new articles put on the market, but, once these are familiar to the public, withdraw them from the P.A.T.A. list. This practice, once rare, seems now

to be increasing, the "N.-R." consequently announces that all such future cases of secession will be duly announced to pharmacists, who will then deal with them as they consider best.

FOREIGN TRADE IN COPPER SULPHATE.—The French foreign trade in copper sulphate showed a decline in both imports and exports during 1929. Imports amounting to 26,274 metric tons valued at 77,855,000 frs. during 1928 declined in 1929 to 22,285 metric tons valued at 69,721,000 frs. Exports, which are comparatively unimportant, amounted to 3,731 metric tons valued at 12,009,000 frs. in 1929, compared with 4,900 metric tons valued at 15,194,000 frs. in 1928.

THE French police are on the look-out for a person named Gustave Bon, who, describing himself as a chemist, and giving an address at Honfleur, called on manufacturers in Paris and the principal provincial centres and offered a product which, if added to printing ink or paint rendered luminous the letters or surface painted. He gave a demonstration, always successful, and sold the substance at 20 francs a gram, but which never produced the desired result. Purchasers found, too late, that the demonstration was effected by means of luminous paint.

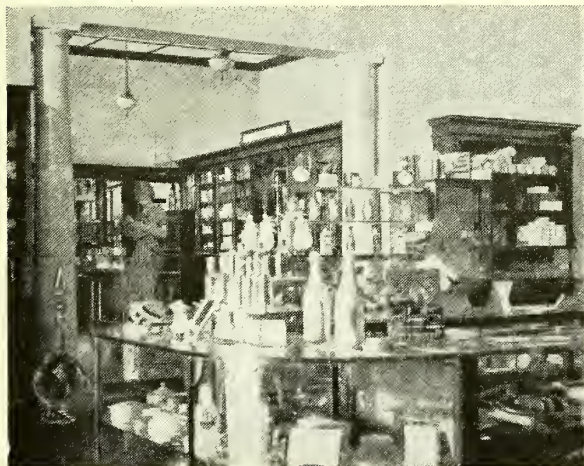
SOME pharmacists who do an appreciable amount of dispensing for war victims have been inconvenienced by the decision of the Minister of Pensions to defer payment of all bills amounting to more than 3,000 frs. These bills are now transmitted by the local authorities to a ministerial committee and the payment so long delayed that it is stated that some pharmacists' outstandings amount to over £200. The minister complains that certain doctors prescribe extravagantly, that matters require examination, but as the pharmacist cannot do otherwise than respect the terms of the medical prescription he naturally wonders why he and not the doctor should suffer.

THE president of the General Association of French Pharmacists took the opportunity of saying a word in season while in Algeria. At a banquet the Resident-General of Algeria and a certain number of notables were present. A proposition had been made to modify the existing (1928) Morocco pharmacy laws, and permit any limited company, of which one director is a qualified pharmacist, both to manufacture pharmaceuticals and to sell them wholesale. The president had protested in the name of the association, and addressed a letter on the subject to the Resident-General of Morocco. This letter he produced at the banquet, and read in extenso for the benefit of the Algerian notables and pharmacists gathered round the board.

APPRENTICESHIP SYSTEM DISCUSSED.—The "pharmaciens agréés" (i.e., those who are allowed to receive apprentices) of Paris held a meeting at which various defects of the present system of "stage" (apprenticeship) were discussed. From this exchange of ideas it was evident that the apprentices offered were often "incapable of rendering service and very exacting as to salaries." Members were invited to make suggestions for remedying this state of things, with a view to their presentation to the authorities concerned. That the suggestions made by this body are not merely platonic resolutions was illustrated by the fact (officially announced at the meeting) that the various slight modifications suggested at a former gathering had all been approved. They were, it is true, mostly of a very simple and practical nature, such as insistence on the actual presence of the apprentice in the pharmacy, the introduction of more practical and less scientific tests in the examinations. Another question was how the number of women candidates could be reduced. It is notorious that very few of these ladies really keep open shop, though it is asserted that in certain cases their name appears over the door while all the real work is done by unqualified men. Yet evidently no legal or official distinction can be made between the sexes. Finally, a pharmacist made what seemed to be a practical suggestion: that the heads of girls' high schools should be called upon and the precarious and difficult career which pharmacy really is for a young woman duly explained to them.

A Bulawayo Pharmacy

A NOTICEABLE feature in Bulawayo's commercial progress in recent years has been the number of old-established businesses which have moved into new buildings. One of the latest instances is that of Smart & Copley, Ltd., chemists and druggists, who established themselves in Bulawayo about thirty-three years ago. The contrast



ANOTHER VIEW OF THE INTERIOR

afforded by the fine new premises recently occupied and the tin "shanty" opposite the present site of the Standard Bank, in which the business was commenced in August 1897, is one that will impress itself upon old residents. Early in 1899 the portion of the present site opposite the Bulawayo Club in Main Street was purchased, and the shop that until recently housed the business was built. In its time it was considered a fine building in the town. The new premises have been erected alongside, and have been turned over entirely to the optical and photographic department. It has been the endeavour of the firm to provide an establishment as up to date as possible. The electric lighting, for instance, has received special attention, the window illumination being by means of "Gecoray" lamps.

The fittings inside the pharmacy are by Fredk. Sage & Co., whose work is recognisable in the glass sliding doors, the easily accessible compartments, and the opportunity given customers to select requirements from the glass cases in which numerous articles are kept.

GLASS ISLAND COUNTER

A feature of the front shop is the glass island counter in horseshoe form, facilitating rapid attention to customers. Comfortable settees are provided for the convenience of those who may be awaiting prescriptions or otherwise detained.

The changes are not confined to one department. Through a large arch entrance is obtained to the photographic and the optical departments. Both are fully equipped in modern style.

OPTICAL DEPARTMENT

In the optical department there are now two qualified opticians, both of whom have taken the full courses in England and are certified capable of giving sound advice on matters concerning the eyes. They are provided with wide facilities in the form of rooms and instruments to enable them to arrive at their decisions.

On the mechanical side of the department there is much to interest in the new installations. A small plant for grinding optical lenses to required sizes has been installed, together with an electric motor. A simple device is used to ascertain whether the lenses of spectacles are screwed correctly and firmly.

The photographic department has been declared by a visiting expert who recently examined it to be second to none in South Africa, save Kodak's establishment in Cape Town.

INGENUITY.—Writing to "The Times," Dr. F. D. Drewitt comments on Dr. A. W. Hill's reference to the fact that the musk flower, for some unknown reason, has of late years lost its scent. Dr. Drewitt adds:—"Is it not possible that the frequent, and universal, epidemics of influenza accompanied by nasal catarrh since 1890 have quickened the rate at which civilised man is losing his sense of smell? It would be interesting to know whether members of primitive races, or very young members of our own, agree that the musk plant has no scent."

AN ARTIST'S COMPARISON.—"I like English pubs and English chemist shops. The London chemist shops are so bright and cheerful, especially at night, with their big glass bowls of coloured water in the windows. When I enter one of these shops everything—medicines, tonics, perfumes—reminds me of radiant health, happiness and order. The London pub looks like a Continental chemist shop—more subdued and pedantic than the English one—and also reminds me of health, happiness and order; perhaps a purely imaginary health and happiness—but isn't it better to imagine these things than to feel ill or miserable? In Sampierdarena—there is such a place in Italy—I once saw an inn called "Farmacia degli sani," and English pubs seem to me "chemist shops for healthy people." I go to a chemist or a pub when lonely or miserable. . . ."—From Theodore Komisarjevsky's "Myself and the Theatre."



INTERIOR, SHOWING GLASS COUNTER ISLAND

Legal Reports

Sponge Importer's Claim.—An alleged custom in the sponge trade was pleaded as a defence in the White-chapel County Court, on September 26, before Judge Cluer. The plaintiff was Sakellarios Emmanuel Criticos, of 121A Bunhill Row, E.C., sponge importer, and he sued Marcuson Bros. & Co., also trading as A. Cohen & Co., of 32 Minories, E.C., sponge merchants. The plaintiff claimed that in several transactions sponges to the value of £127 17s. 6d. were supplied, but the defendants had only paid £120 13s. 6d., leaving £7 4s. due, which he claimed. The defendants claimed that they were entitled to 5 per cent. discount on the account, which meant that they had overpaid, and also that there were 308 pieces of sponge missing, which they had averaged at 5½d. per piece, and had counterclaimed for the amount. The plaintiff gave evidence, and explained the different items which he said made up the account. He denied that he ever agreed to allow 5 per cent. discount, or that in certain items he agreed to forgo a few pounds. It was not true that there were 308 pieces of sponge missing, and neither would he agree that 5½d. per piece was a fair average price, even if they were missing. He was never asked to go round to the defendants' warehouse, and count the number of sponges in the cases that he had supplied. Mr. Marcuson came to his place with his driver, and he told the driver to count the pieces in several cases before he agreed to purchase. Counsel for the defendants, Mr. Taylor: Is there not a custom in the sponge trade that when a buyer finds there are certain pieces missing, he deducts them from his account, and there is no question whatever? Plaintiff: That is so, but it only applies in certain cases. The plaintiff went on to say that the custom held good in the case of a wholesaler dealing with a chemist or a retailer, but not between sponge merchants. The defendants spent half a day looking through his stock before making the purchases in question, and in view of that, could it be expected that he should believed there were shortages? He had a letter in which the defendants said there were shortages, and that the sponges were not up to sample. The defendants also asked to know how many pieces were supposed to be in each case. The allegation of not being up to sample was not now proceeded with. Samuel Marcuson, proprietor of the defendant company, gave evidence, and Judge Cluer warned him that he was liable to a penalty of £10 for every letter that he had written on his business paper which did not disclose who the proprietor was. He was sure that the British taxpayers would not mind being relieved of some of their burden by this means. The defendant went on to say that when he agreed to buy this consignment, the plaintiff agreed to let him have 5 per cent. discount on the whole account. When this was deducted from the amount alleged to be owing, he found that he had overpaid, and, in addition, he was also claiming 5½d. for 308 pieces of sponge that were missing. After other evidence by the manager and motor-driver in the employ of the defendant, Judge Cluer said that he could not believe the defendant's story of the overpayment. It was not a characteristic to pay an account in full, and then discover that the discount had not been deducted. He would give judgment for the plaintiff for £7 4s. and costs, and would also dismiss the counterclaim.

Business Changes

MR. A. SCRAGG, chemist and druggist, Swadlincote, has removed his business from 56 High Street to 8 Market Place.

HERMOLINE PRODUCTS (LIVERPOOL), LTD., wholesale and retail chemists, have opened a business at 1 Queen's Buildings, Fishergate, Preston.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

CHAPMAN, LTD. (P.C.).—Registered in Dublin on September 30. Capital £2,000. Objects: To carry on the businesses of chemists, druggists, drysalts, oil and colourmen, etc. The directors are: R. S. Chapman, Ph.C., and H. Coburn, Ph.C., The Diamond, Donegal.

WILLIAM WRIGHT & Co., LTD. (P.C.).—Registered in Belfast on September 30. Capital £800. Objects: To take over the business of W. Wright at Killyleagh, co. Down, druggist. The subscribers are: W. Wright, Mrs. Kathleen Wright and R. E. A. Simmonds, Ph.C. R.O.: High Street, Killyleagh, co. Down.

R. L. WILSON & Co., LTD. (P.C.).—Capital £100. Objects: To acquire the business of a chemist and druggist, etc., heretofore carried on by J. W. Moorhouse, at 12, Market Hill, Barnsley. The directors are:—R. L. Wilson (chairman), and Mrs. A. E. A. Wilson. Solicitors: Armitage, Speight & Ashworth, Leeds.

T. M. SHANNON, LTD. (P.C.).—Registered in Belfast on September 27. Capital £2,000. Objects: To acquire the business of a chemist and grocer, confectioner and general merchant carried on by Thomas Murray Shannon at 6/8 Main Street, Rathfriland. The directors are: T. M. Shannon and Mrs. F. Shannon.

MY LADY DYES (1930), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers, producers, importers and exporters of and wholesale and retail dealers in all kinds of dyes, dye-stuffs, chemicals, drugs, etc. The directors are: A. Macfarlane and Miss R. Russell. R.O.: 41 Foulis Lane, Annisland, Glasgow.

HERMOLINE PRODUCTS (LIVERPOOL), LTD. (P.C.).—Capital £3 in £1 shares. Objects: To adopt certain names and carry into effect the preparation, manufacture and marketing of a patent medicine preparation to be known as "Hermoline." The subscribers are: J. E. Burton, A. Atkinson and Mrs. L. Burton. R.O.: 27 Moorfields, Liverpool.

HUBERT A. C. THOMAS & Co., LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of chemists, retail, wholesale and manufacturing, carried on by Hubert A. C. Thomas & Co. at New Dock Road, Llanelli. The subscribers are: H. A. C. Thomas, New Dock Pharmacy, Llanelli, chemist, and Mrs. M. S. Thomas, 27 Coleshill Terrace, Llanelli.

WEE-KURA, LTD. (P.C.).—Capital £1,000. Objects: To adopt an agreement with B. P. Abbott, to acquire the trade mark "Wee-Kura," and to carry on the business formerly carried on by the said B. P. Abbott at Knaresborough, and that of manufacturers, buyers, etc. The directors are: B. P. Abbott and Mrs. Ethel A. Abbott. R.O.: 4 Victoria Avenue, Knaresborough.

CONTINENTAL CHEMICAL CORPORATION, LTD. (P.C.).—Capital £5. Objects: To acquire the business of a manufacturer and inventor of chemical products carried on by Leo. G. Culleton, together with the formulae, chemical receipts, etc. The directors are: Fanny Culleton and Leo. G. Culleton. Solicitors: Claremont, Haynes & Co., Vernon House, Bloomsbury Square, W.C.1.

UTOL, LTD. (P.C.).—Capital £30,000. Objects: To carry on the business of chemical manufacturers and distributors formerly carried on by Morum, Yates & Edwards, Ltd., at 30-31 Holborn, E.C., and to acquire the trade mark "Utol." The directors are: W. E. Morum, J. C. Edwards, P. Idle, S. C. Menneer, L. J. Sheldon and P. H. Waistell. R.O.: 30 and 31 Holborn, E.C.

SHIELDS, LTD. (P.C.).—Registered in Belfast on September 20. Capital £500. Objects: To carry on the business of wholesale or retail chemists, druggists, etc.,

and to acquire the business of T. S. Shields at 51 Donegall Pass, Belfast. The directors are: T. G. Blair, 93 Agincourt Avenue, Belfast, chemist, and T. S. Shields, 51 Donegall Pass, Belfast, druggist. R.O.: 51 Donegall Pass, Belfast.

H. MARCEL GUEST, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a manufacturer, importer and exporter of and dealer in capping solutions and cellulose products and chemical solvents now carried on by H. Marcel Guest at Oliver Street, Manchester. The directors are: H. Marcel Guest, H. J. Falder and F. Wilson. R.O.: Whittleys Buildings, Oliver Street, Manchester.

BROWNLAC, LTD.—The adjourned first ordinary general meeting was held on October 6 at Caxton Hall, S.W. Lieut.-Col. G. A. M. Scales, D.S.O. (chairman), presided. On the motion for the adoption of the report being put to the meeting it was declared lost on a show of hands. A poll was demanded, the result of which was as follows: For the motion, 168,370 votes; against, 148,980 votes. In his report, the official chemist who represented the Board at the test carried out on October 3, stated that the substance produced had no claim to be called synthetic shellac or artificial shellac. He recommended that the company should spend no more money in carrying out the experiment, which, in his opinion, could not yield satisfactory results.

Private Arrangement

Robert Parker, 162 Widnes Road, Widnes, chemist and photo dealer. The creditors interested herein were called together on September 18 at the Chartered Accountants' Hall, Manchester. The statement of affairs presented disclosed liabilities of £2,440 9s. 5d., of which £615 2s. 9d. were due to the trade, the debtor's wife was a creditor for £408 16s. 9d., and there were creditors for gas, water, etc., £38. In addition there were partly secured creditors for £1,728 9s. 11d., who held securities valued at £350, leaving £1,378 9s. 11d. to rank as unsecured. The assets totalled £1,170, from which had to be deducted £41 2s. 1d. for preferential claims, leaving net assets of £1,128 17s. 11d., or a deficiency of £1,311 11s. 6d. The assets consisted of fixtures, fittings and utensils £483, valued at £250; stock in trade £979, estimated at £750; and book debts estimated to produce £107. It was reported that from September 13, 1926, to March 31, 1927, there was a net profit of £119, whilst the takings were £1,214. In the following twenty-one months the turnover increased to £4,529, and there was a net profit of £526. For the period from January 1929 to February 28, 1930, the takings had been £2,573, and there was a net profit of £100. It was stated that the debtor had two shops, but he disposed of one in March of this year. It was decided to accept an offer by the debtors' father to purchase the assets for a sum equivalent to a composition of 10s. in the £. secured by a deed of assignment in favour of Mr. Boardman as trustee. The following are creditors:—The British Drug Houses, Ltd., £15; Dalmas, A. de St., & Co., Ltd., £14; Illingworth, Thomas, & Co., Ltd., £17; Johnson, J. H. & H., & Son, Ltd., £12; Pears, A. & F., Ltd., £10; United Drug Co., Ltd., £17; Ayrton, Saunders & Co., Ltd., £31; Evans Sons Lescher & Webb, Ltd., £43; Kodak, Ltd., £28; Newbery, F., & Sons, Ltd., £182; Parfumeries de Paris, Ltd., £27; Southall Bros. & Barclay, Ltd., £26.

Bankruptcy Reports

Re Arthur Alick Maitland, trading as Windsor Pharmacy, 17 Windsor Road, Uxbridge, Middlesex, chemist. The receiving order herein was made on a creditor's petition. According to the statement of affairs filed it would seem that there were liabilities of £1,523 3s. 10d. against assets of £503 16s. 10d., thus leaving a deficiency of £1,019 7s. The debtor attributes his failure to lack of capital and insufficient profits to meet the instalments of the purchase price of the

business and living expenses. It appears that in September 1929 the debtor entered into an agreement to purchase the business of a chemist for £700, acquiring the lease, goodwill, stock, fixtures and fittings. The stock, fixtures and fittings were valued on his behalf at £613, but he agreed to pay £700 in consideration of the vendor allowing payment by instalments spread over a period of five years. A mortgage of the lease and goodwill of the business was executed to secure that sum with interest at $7\frac{1}{2}$ per cent. per annum. As he had paid a deposit of £60 on the purchase of a Ford car obtained on hire-purchase terms, he was unable to meet the first instalment of £35, and he borrowed £78, still owing, from a friend. Owing to lack of capital he was unable to replenish his stock, the result being that his receipts dropped from about £40 a week in May 1930 to £20 a week at the date of the receiving order. He executed a deed of assignment in July last, and a meeting of creditors was held, but as the petition was presented shortly afterwards, the deed was not acted upon.

Wills

MR. HENRY WEBSTER HARWOOD, of 52A Wilson Road, Stainshaw, Portsmouth, chemist and druggist, left estate of the gross value of £1,554 5s., with net personality £434 5s.

MR. THOMAS WEAVER HAZELBY, of High Street, Ringwood, Hants, chemist and druggist, who died on July 8 last, aged fifty-four, left £3,173 19s., with net personality £1,533 17s.

MR. ARTHUR NOBLE KERSHAW, of Zealands, Riddleden, near Keighley, chemist and druggist, who died on July 7 last, left estate of the gross value of £1,694 7s. 3d., with net personality £1,000.

MR. JOHN EDWARD WOOD, of 242 Abbey Hills Road, Oldham, chemist and druggist, proprietor of Granville Wood & Co., Ashcroft Street, Oldham, who died on July 4 last, aged fifty-nine, left £5,721 8s. 6d., with net personality £5,055 12s.

MR. WILLIAM EDWARD FAIRLESS, of 5 Alexandra Road, Ashton-in-Makerfield, chemist and druggist, who died on April 18 last, aged fifty-two, left estate of the gross value of £3,976 17s. 2d., with net personality £2,035 1s. 11d.

MR. ERNEST HARRISON, of 1,163 London Road, Derby, retired chemist and druggist, who died on June 29 last, aged seventy-six, left estate of the gross value of £6,431 17s. 4d., with net personality £3,924 9s. 6d.

MISS ADA BERYL HUMPHREYS, of 6 Darwin Street, Northwich, Cheshire, chemist and druggist, who died on July 24 last, aged thirty-three, left estate of the gross value of £1,050 17s. 9d., with net personality £1,011 2s. 10d.

Gazette

Partnership Dissolved

WEST, H. W., and RYLATT, T., Falcon Works, Poland Street, Oldham Road, Manchester, colour and chemical merchants, under the style of Wyndham West & Co.

Bankruptcy Acts

RECEIVING ORDERS AND ADJUDICATIONS

GODDARD, T. W., 32 Warwick Street, Barrow-in-Furness, Lancaster, chemist.

GRIFFITHS, E., 7, Promenade Terrace, Mumbles, Swansea, chemist's assistant.

The Business Side of Pharmacy

By ERNEST C. CRIPPS, Sales Manager to Allen & Hanburys, Ltd.

IV—Opening a Pharmacy

THERE are two methods of acquiring a business—(1) by the purchase of an existing business, and (2) by starting for oneself, and although the title of this lecture applies more to the second of the two, it is important to know how to set about buying a business which is already a going concern.

Purchasing a Business

It is somewhat difficult to-day for a pharmacist to buy a good business, because the majority of such are bought by the multiple-shop combines; but there are, occasionally, opportunities of getting hold of sound concerns, and to distinguish these from those that may be described as "dud" requires some little knowledge that I hope to summarise in as few words as possible.

A method of estimating the extent of a business and its suitability to the buyer's needs was in vogue in days gone by, but it seems to have dropped out of use to-day; I allude to the practice of the buyer managing it for himself for a week or longer period. I remember how a business changed hands in the South of England. It was advertised for sale, and a friend of mine, after making full inquiries from the seller, was not quite satisfied. "Look here," said the owner, "it is now 7 o'clock Friday night; we close at 8. Will you take over from then; I will give you a week and will return at 8 o'clock next Friday. You will then know whether the business will suit you?" My friend agreed and took over as requested. He was so convinced, not only of the soundness of the business as it then was, but of the possibilities of its extension, that when the owner appeared at the end of the week, the purchase was completed, with results that have abundantly justified the experiment.

Questions to be Answered

Such a method, however, may not always be convenient or possible, so that answers to the following questions should be obtained:—

(a) What are the reasons for selling—are they genuine ones? It is not always easy to get correct answers, but of the importance of asking no one can doubt. If the replies are not straightforward or satisfying, cautious inquiries in the neighbourhood will often reveal the reasons for the desire to sell.

(b) Figures are given relating to turnover and profits; can these be substantiated? This is where a good system of book-keeping and the preparation of a balance sheet, both mentioned in a previous lecture, are so useful. Balance sheets extending over several years, and certified by an accountant, give absolute proof of profits and takings; at the same time the absence of such is no proof that the financial records are necessarily incomplete or give a false impression. The help and advice of an experienced pharmacist is most useful here; often representatives of wholesale houses are in a position to confirm or otherwise the general statements made.

(c) Are there opportunities for expansion? A business may have reached its saturation point and, try how he may, the owner is not able greatly to increase his returns. The neighbourhood, once suitable for the type of business, may be changing. Competition may be developing at such a rate as to kill chances of further growth. There may be vital changes coming in the street, such as the diverting of traffic, of which a stranger knows nothing; all these have to be considered before a decision is arrived at.

(d) Will the class of business suit me? Many a buyer of a good business has found himself quite unsuited to it, and has had great difficulty in adapting himself to it. For instance, you may have been used to an agricultural business and have liked it; would you be as happy and as satisfied in a good-class dispensing business? You may have been apprenticed in the West End of London in what is known as a "good-class" business; would a business in the East End of London suit you as well? These are extreme cases,

but they illustrate the need for caution in purchasing; or again, the business you contemplate buying has a good optical trade and you may know little of optics. Or, the business is one where considerable credit is given, and your working capital is not likely to be large. Then again, there is the health side to be considered. Is the neighbourhood likely to suit you (or your wife, if you are married) so far as health conditions are concerned, is it bracing or enervating, or damp or on chalky soil?

(e) Is there security of tenure? This can only be obtained by purchasing the property outright or securing a satisfactory lease. In such a case the landlord should be approached and asked if he will transfer the existing lease or grant a new one. In any case no purchase money or part should be paid till this important matter is settled.

(f) How is the purchase price to be estimated? The usual method is to agree upon the value of the stock and fixtures—plus a sum for goodwill and for the lease. The value of the stock and fixtures can be an agreed sum, or it may be arrived at by an independent valuer. The goodwill of a business is not so easily found; some deny that a business has any goodwill, and there are certainly businesses for which no goodwill should be paid. The old method of arriving at goodwill is probably still a sound one, i.e., one year's net profit; on the other hand many businesses are not worth a goodwill of more than six months' net profit. This is a matter of negotiation between buyer and seller. There may be some value in the lease if it is a long one and the rent is below the usual rents in the neighbourhood.

In addition to the above, you should remember the following. If there are trade marks and special recipes in use in the business you are purchasing, make sure that these are transferred to you. See that debts owed by the previous proprietor are definitely excluded, and make sure that any goods on sale or return or on loan, such as syphons, are declared, and above all, see that a properly worded agreement is drawn up between the parties so that there is documentary evidence for the arrangements that may have been entered into verbally. So much for buying a business which is already a going concern.

Opening a New Business

It is not difficult to-day to watch for opportunities to open a new business for oneself. The natural expansion of our towns and cities and the opening up of estates, garden cities and the like provide openings for a number of pharmacies. These have to be looked for, however, and some judgment has to be exercised before a decision is made. Do not be misled by the statement that a "chemist is badly needed"; inquire for yourself and spend one or two early closing afternoons in the neighbourhood talking to all kinds of people who can help you. If you decide to open, look for a likely shop or the site for a shop if you are thinking of building for yourself. Make sure it is the right side of the street. All towns have one side of the street, usually the sunny side, which is the business side. Get near to a post office, bank, or a big business where many people go. A corner is often an ideal place for a shop, particularly if buses or trams stop there. If you buy or rent an existing shop, see that there is a step down into it from the pavement, rather than a step up; it is better, of course, for the floor of the shop to be on the same level as the pavement, but sometimes there is no choice.

The question of method of purchase, if you decide to buy an existing shop, is an important one. It is comparatively easy to-day to buy premises, through a building or similar society, and an arrangement can be made whereby repayments of principal and interest may be spread over a number of years. If you have the money and can spare it, you can pay a substantial sum down and secure a mortgage on the property for the rest of the purchase price.

If you rent the premises (and it is more easy to do so to-day than it was) see to it that the charge is not exorbitant, because rates are in proportion to rent as well as are other charges. We will assume that you have your shop, but there are no fittings and fixtures; how should you proceed?

There is no doubt that the best way is to call in the services of the professional shopfitter; it is cheapest in the end and you get unity in design. It is possible to get in contractors for flooring, illuminating, ventilating and heating, as well as the actual fitting; but much worry will be saved by putting the work into the hands of one firm of shopfitting specialists.

The Essentials

There are several essential matters to remember in planning. There must be a good floor; the scheme of decoration must be effective and pleasing; ventilation that is adequate both for the pharmacy in general and for the window must be provided for; facilities for heating must be provided; and the layout should be arranged so as to give the maximum of space to customers and to the staff.

First, the floor. I can remember the time when plain boards, without any covering, formed the floor of the pharmacy; to-day these are replaced by parquet, where style and elegance are required, or by plain

wood blocks. Linoleum is still a great favourite, but it should be of good quality, preferably of the inlaid type; the older kind wore badly, and the design, if any, particularly where there was much traffic, was soon lost. The ceiling deserves passing notice; something decorative is required; some of the embossed papers, such as anaglypta, make a pleasant change to plaster.

The general method of decoration depends largely upon the kind of wood used for the fittings; much money can be spent upon this important work. If it is desired to cut down expenses as far as possible, the walls can be distempered or papered in some neutral colour; if a richer effect is preferred, wood panelling is now extensively employed in all kinds of designs, and opal glass is a material which has lately been used for lining walls, window enclosures, counter tops, etc.

Ventilation is a subject upon which expert advice should be sought, as in many modern shops one still sees steamed and frosty windows in winter-time. I recommend you to take a walk along Oxford Street or Regent Street, or some of the streets of our big cities, and notice the methods in vogue for ventilating the windows of the shops. You will probably get clearer ideas on the subject than by diagrams and illustrations on the blackboard.

(To be continued.)

Salford Analyst's Report

THE report of the Salford city analyst (Mr. H. E. Monk, B.Sc., F.I.C.) covering the year 1929 shows that, of a total of 1,491 samples taken under the Food and Drugs (Adulteration) Act, forty-six (3.02 per cent.) were found to be adulterated. The introductory paragraphs of the report contain the following criticism of the Act:—"It is, however, a 'consolidating Act,' and simply re-enacts the provisions of these [earlier] Acts almost without the alteration of a comma. Little has been gained by this consolidation, and it is the opinion of the writer that a new Act to modernise our code dealing with food and drugs was wanted rather than a re-enactment of our old and somewhat inadequate laws. New aspects, with which new legislation will eventually have to be made to deal, are misstatements and inaccurate claims by means of label and advertisement." The following are the principal topics in the report of interest to our readers:—

Diabetic Flour.—Sample No. 1213 was purchased from a retailer in the ordinary way, and proved to be ordinary whole flour. The vendor stated that he had bought it as diabetic flour, and arrangements were made to take a formal sample on delivery from the millers. Summonses were issued against the shopkeeper and the millers. The retailer was fined £5 and warned that he must not sell this article in future as diabetic flour. In the hearing of the case against the millers, invoices were produced showing that the flour was consigned as "Sp. W. Flour," and the retailer in his evidence admitted that he got what he asked for. Accordingly, the magistrate held that there was no sale of diabetic flour to the retailer from the millers, and the case against them was dismissed. Diabetic flours, in general, consist of flour made from raw materials, which naturally contain less carbohydrate (i.e., starch and sugar) than wheat, or wheat or other flour treated so as to remove a considerable portion of the original carbohydrate. While there is a number of satisfactory articles on the market, there are also examples of products being sold which contain nearly as much carbohydrate as ordinary wheat flour. The prices asked range from 6d. to about 4s. per pound, and the price is not always a sure index of the suitability of any particular product for the diabetic patient.

Zinc Ointment.—Unguentum Zinci, B.P., is directed to be made of zinc oxide 15, benzoated lard 85. Sample No. 1083 was found to contain 18 per cent. of zinc oxide with traces of magnesium, and, further, to be made with a basis of petroleum jelly and ceresin.

The manufacturer was interviewed, and declared that he thought a number of other makers used substantially the same formula. The other samples, taken at the same time, failed to corroborate this statement, only one other sample, the product of the same firm, not being of Pharmacopœial standard. Eventually this maker agreed to alter his formula to that of the B.P.

Seidlitz Powder.—Sample No. 1438 was of the "extra-strong" type. According to the British Pharmaceutical Codex, the blue paper of such a powder should contain 2.5 grams of sodium bicarbonate and 11.25 grams of Rochelle salt. This sample was 15 per cent. deficient of Rochelle salt. The makers of this brand had some time previously agreed in an interview to bring their product up to the standard of the B.P.C., and it was thought that this particular sample might be old stock.

Malt Extract and Cod-Liver Oil.—No. 443 was an informal sample and contained only 3.3 per cent. of cod-liver oil by weight . . . Seven other samples, all taken at the same time, contained at least 10.4 per cent. of oil by weight. This sample was deficient of nearly 70 per cent. of the correct amount of oil, and was the first to fall below this minimum standard for a considerable time. It also contained 3 per cent. of olive oil. The chemist from whom it was bought had the labels printed, and they were put on by the wholesale firm. He was making a special line of the article, and the price was higher than usual, but he made no effort to ascertain if it was genuine. A formal sample, No. 531, bought in February, had the same composition, and at the request of your Committee the makers were communicated with and an interview arranged with one of the directors. According to him, the particular product was a special line made up at the request of many of their customers, who wished for a malt and oil of a more palatable flavour. There was, of course, no objection to this, but such a mixture should not be described as extract of malt with cod-liver oil.

Turpentine.—Sample No. 770 was bought as turpentine and was found to consist of 97½ per cent. of white spirit, a petroleum product, and 2½ per cent. of turpentine. The label on the bottle described the product as "Specially blended spirits of turpentine—suitable for all household purposes." . . . An interview was . . . requested with a member of the firm. His defence was that it was a blended article and was not sold as pure spirits of turpentine, and also that the term "turps" was a recognised trade name for turpentine substitute. . . . It was finally agreed that the article should be labelled and sold as turpentine substitute or that the genuine article should be sold with the present label.

Pharmaceutical Society of Great Britain

Examination Results

THE following are the results of the examinations held in London during the present month:—

	No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for Prelim. Sc. exam. ..	165	7	106	30	22	—	—	—	—
Referred subject in Prelim. Sc. exam. ..	75	1	—	39	35	—	—	—	—
Entered for C. and D. exam. ..	131	—	—	—	—	11	51	28	41
Referred subject in C. and D. exam. ..	135	—	—	—	—	4	—	38	93
	506	8	106	69	57	15	51	66	134

Referred in one subject:—Botany, 39; chemistry, 13; physics, 17; pharmacognosy, 12; pharmacy, 17; pharmaceutical chemistry, 27; forensic pharmacy, 10; total, 135.

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following, having satisfied the examiners in this examination, have been registered as chemists and druggists:—

Abrahams, S., Stepney
Ackroyd, Mary, Halifax
Annis, D., Bridgwater
Atzema, S. R., Dunstable
Austin, T. W., Utttoxeter
Bailey, R. F., Winton
Baines, C. E., Cambridge
Barrow, W., St. Leonards
Bealand, H. M., Bradford
Beard, B. L., Walthamstow
Beck, R. R., Birmingham
Benjafield, V. E., Boscombe
Bingham, J., Newark
Bolton, G. A., Pontypridd
Bowdler, Kathleen E., Liverpool
Bryne, N. G., Glastonbury
Bunnell, S. G., Rochdale
Butler, J. C., Bury
Callard, A. H., Barnstaple
Cameron, Margaret A., Bradford
Catt, A. D., Newhaven
Clare, D., Brixton
Cohen, D. M., Stepney
Craven, E. E., Catford
Crignam, M., Birmingham
Davies, E., Bridgend
Downing, H. D., Southamton
Duxbury, T. D., Blackpool
Ecob, F. W., Nottingham
Edwards, A., Halifax
Egerton, W. L., Southsea
Evans, J. E., Penarth
Evans, May, Swansea
Fitz-John, J. H., Norwood
Fox, R. C., Chilwell
Gallard, Alice, Baldock
Glenon, W., Warrington

Glover, L. R., Bideford
Glover, R. H., Port Dinorwie
Goddard, Mabel, Oswestry
Goodman, H., Beaumont Square
Goodwin, N. F., Derby
Gould, H. H., Old Woking
Gray, W. N., Aston
Green, J. H., Bury
Hanford, D. W., Llanelly
Hannah, Kathleen, Mytholmroyd
Harris, B. W., Reading
Hawes, Mary I., Oxford
Healey, C. T., Luton
Hill, Dorothy A., Plymouth
Hinde, Elsie M., Islington
Hobbs, P. W., Bath
Holland, R., Stretford
Holroyd, H., Heanor
Hooker, G. T., Sittingbourne
Howlett, H. W., Sutton Coldfield
Hurdwell, R. F., Camberley
Jackson, A. H., Northampton
James, J. B., Llandoverly
Jarman, W. J., Mardy
Jones, E., Neath
Jones, G., Carmarthen
Jones, G. J. E., Cardiff
Jones, P. L., Swansea
Jones, R. D., Llanfyllin
Jones, T. E., Rhuddlan
Kerfoot, Muriel, Hyde
King, T. C., Camborne
Lee, Mabel W., Barton-on-Humber
Lewis, J. G. D., Swansea
Lewis, J. M., Swansea

Lewis, M., Whitechapel
Light, R. A., Bourne-mouth
Livsey, L., Cardiff
Lloyd, G. J., Hackney
Lomas, H. B., Wallasey
Lomax, J. E., Farnworth
Lyons, B. M., Swansea
McCormick, G., Manchester
McDougall, J., Preston
McHugh, R. F., Newmarket
Malley, R. E., Battersea
Marriott, C., Lincoln
Marvin, G. S., Droitwich
Mason, H. M., Bristol
Mills, H. D., Cheetham
Minshall, C. A., Colwyn Bay
Moore, P. A., Newport
Morris, A. G., Queens-town, S.A.
Morris, G., Maerdy
Nelson, J. A., Liverpool
Nowell, Ada M., Harlesden
Parkes, J. H., Brierley Hill
Parkin, A., Hoyland
Parnell, A. S., Coventry
Perfect, Agnes M., Bradford
Pitt, J. W., Minehead
Plassen, J. G., Stockwell
Platt, W. J. J., Preston
Prescott, Dorothy, Accrington
Purchase, H. E., Birmingham
Rake, E. H., Aberdare

Randall, Constance A., Newark
Rawland, M. A., Leigh
Redman, A. G., Lutterworth
Ridley, R. E., Wigan
Ridsdale, R. J., Eastbourne
Robson, W., Longsight
Saunders, H. J., Burton-on-Trent
Sencicle, J. L., Middleton
Shelton, A. O., Melton Mowbray
Smith, F. N., Wrexham
Smith, J. H. L. G., Finsbury Park
Smith, M. W., Llanharan
Stevens, Barbara A., Liverpool
Stiles, Margaret E. F., Market Harboro'
Taylor, A. F., Ramsgate
Thomas, G. H., Cymmer
Turner, I. C. W., Bristol
Twidale, H. L., Mansfield
Waldman, M., Burnley
Walton, F. G., Glossop
Ward, H., Leicester
Watson, E. H., Herne Hill
Watts, H. H., Stretford
Welton, H., Bradford
West, J. T. J., Seaforth
Whalley, A., Blackburn
Williamson, J., Castleford
Willis, G. D., Urmston
Winson, J. S., Nottingham
Woolfe, J., Manchester
Wrigley, F., Manchester

Branch Meetings

Lancaster.—The eighth annual meeting of the Lancaster, Kendal and District Branch was held on September 3, Mr. R. H. Barker (Windermere) in the chair. The chairman paid a tribute to the late Mr. G. Vogt and to the late Mr. A. C. Bateson. The report of the treasurer (Mr. W. A. Smith) was so satisfactory that it was decided to vote £5 to the Society's Benevolent Fund. The following officers were elected for the ensuing year:—*Chairman*, Mr. W. R. Aled, Lancaster; *Vice-chairman*, Mr. W. S. Murray, Kendal; *Secretary and Treasurer*, Mr. W. A. Smith, Lancaster; *Auditors*, Mr. H. E. Cuthbert, Lancaster, and Mr. W. C. Eastwood, Lancaster; *Committee*, Messrs. A. H. Robertson, J. B. Shattock, C. T. Spenceley, A. Bate, C. E. Marriott, D. Mitchell and R. H. Barker. Mr. E. H. Simmons (member of the Society's Council) spoke on *The Outlook in Pharmacy*, dealing at length with the report of the Departmental Council and the draft Pharmacy Bill. A discussion followed, and hearty thanks were expressed to Mr. Simmons, on the proposition of Mr. R. H. Barker, seconded by Mr. A. H. Robertson.

DRAFT regulations have been made (Stationery Office, 1d.) for the allotting of costs incurred by Joint Pricing Committees.

WORLDLY WISDOM.—"The solicitor defending said that the defendant was really a chemist's assistant, but after his marriage his father-in-law, realising that there was not much to be made in that occupation, persuaded him to open two shops—one as a greengrocer's and the other as a butcher's."—"West London Observer."

A Veterinary Anthelmintic

By G. R. Boyes, B.Sc., F.I.C., Ph.C.

INTEREST in the anthelmintic properties of tetrachlorethylene was stimulated by the publication in 1926 of an account of a series of investigations which had been undertaken by Maurice C. Hall and Meyer Wigdor with the object of ascertaining the relative efficacy of a number of substances credited with anthelmintic properties. They pointed out that whilst members of the closed-chain, or benzene series, of hydrocarbons were in use for the removal of roundworms and tapeworms from the intestinal tract of animals, only a comparatively small number of open-chain compounds—notably the halogen derivatives of methane and ethylene—had so far been thus employed. Experiments had indicated that this latter type of compound ought to be more fully investigated, and Hall in conjunction with Shillinger had already carried out some tests with tetrachlorethylene, and had reached the conclusion that this aliphatic chlorine compound whilst being effective against ascarids in dogs and other animals, was sufficiently safe to justify its use in veterinary and human practice. Several other papers which have appeared since that time furnish the basis for the following notes.

DEGREE OF TOLERANCE

Tetrachlorethylene, ethylene tetrachloride or carbon dichloride, C_2Cl_4 , is a colourless liquid with a sweet ethereal odour, a boiling point of 120° - 122° C., and specific gravity 1.619 at 20° C. It is not volatile at low temperature, and there is practically no risk of suffocation if it should be liberated in the mouth or upper respiratory tract. Following the original experiments of Hall and Shillinger, a series of tests with tetrachlorethylene was carried out by Schlingman. The compound was administered in soft gelatin capsules to a number of animals, including dogs, sheep, pigs, goats, silver foxes, and also to chickens. The tests on dogs showed a high efficacy against roundworms and hookworms, but no effect on whipworms or tapeworms. The dosage employed was 1 c.c. (17 minims) for every 10 lb. of body-weight. *Post-mortem* examination did not reveal any apparent macroscopic changes in the internal organs. A therapeutic dose given to a pregnant bitch showing evidence of approaching parturition did not produce any untoward symptoms nor did it influence the time of parturition in any way. The simultaneous administration of a purgative appeared to lessen the efficacy of the anthelmintic. Similarly, tests on cats showed that a dose at the rate of 3 minims per 2½ lb. of body-weight (0.2 c.c. per kilogramme) can be given with safety and is sufficient to remove roundworms and hookworms. In the case of chickens, silver foxes and sheep there was also a wide degree of tolerance, and the drug was found effective against the common nematode parasites of the intestinal tract, but not against tapeworms. Somewhat similar conclusions were reached by Hanson, whose investigations with foxes showed that tetrachlorethylene has a high degree of efficacy against hookworms and also against roundworms (ascarids) in these animals; suffocation does not occur from inhalation, and large doses (even 8.6 c.c. per kilogramme) do not produce symptoms of intolerance other than vomiting after food given two hours subsequent to administration of the drug. Extensive tests for toxicity undertaken by Schlingman and Gruhitz and based upon a histological examination of the livers, kidneys and spleens taken from chickens, and animals that had previously been dosed with tetrachlorethylene, showed the order of tolerance to be chickens, puppies, cats, foxes, sheep, cattle and horses. No effects from the action of the tetrachlorethylene were seen in the kidneys or spleens of the animals examined, and the slight amount of destruction seen in the livers was not comparable to the dose administered and was considered to confirm the relative safety of the drug.

FURTHER INVESTIGATIONS

More extensive investigations of the pharmacology and toxicology were reported in a paper by Lamson, Robbins and Ward, who pointed out that even in moderate doses carbon tetrachloride produces liver damage and a disturbance of liver function. Tetrachlorethylene is absorbed little, if at all, from the intestinal tract of dogs in the absence of fat. The authors conclude that in therapeutic doses tetrachlorethylene causes no demonstrable pathological changes nor symptoms in dogs, and could be used for the treatment of hookworm disease with far greater safety than either oil of chenopodium or carbon tetrachloride. These authors called attention to the fact that if fat is present in the intestine at the time the tetrachlorethylene is given there is a danger of mental and nervous disturbances, but Schlingman reported that the feeding of fats to dogs shortly before giving tetrachlorethylene did not appear to affect the toxicity of the drug, although it reduced the anthelmintic action to zero, and for this reason he advised the elimination of fatty foods from the diet of dogs a short time prior to dosing; for similar reasons oils, such as cod-liver oil or castor oil, should not be given simultaneously with the anthelmintic. Calves, twelve or eighteen months of age, have been found to tolerate quite large doses. Cats tolerate doses at the rate of 0.2 c.c. per kilogramme; adult dogs tolerate large doses quite well. Chickens of average size tolerate doses of 1 c.c., which amount is apparently sufficient to remove 1 c.c., which amount is apparently sufficient to remove roundworm parasites; the eggs from treated hens do not partake of the taste of the drug, neither does their fertility or ability to hatch appear to be affected.

EXPERIMENTAL RESULTS CONFIRMED

Numerous tests under practical farming conditions have afforded confirmatory evidence of the experimental results. Considerable publicity has been given in America to what was termed the Whitten test arranged by the Agricultural Experimental Station of Texas, where in recent years the increasing prevalence of internal parasites in sheep, especially the common stomach worm, *Hæmonchus contortus*, has become such a menace as to be a factor of economic importance. According to the published results of this test tetrachlorethylene appears to be superior in anthelmintic effect to any of seven other worm medicines tested under similar conditions. The use of drugs in the treatment of diseases caused by nematode and trematode worms was the subject of a discussion at the Eleventh International Veterinary Congress held in London during August of this year. In a paper contributed by Hall, tetrachlorethylene is referred to as being useful against stomach worms (*Hæmonchus* species) in cattle and sheep, hookworms in sheep, dogs and cats, roundworms in dogs and chickens, whilst further tests for its efficacy against stomach worms in horses, ascarids and small trichostrongyles in cattle are advocated. Taylor, of the Ministry of Agriculture Veterinary Laboratory at Weybridge, Surrey, at the same Congress, said that the drug was effective against ascarids in cats, hookworms in cats, puppies and foxes, and on theoretical grounds further tests might be expected to prove it to be the most effective agent against ascarids in pigs and horses. La Haye reported it to be effective against heterakids in pigeons. The dose of tetrachlorethylene may be computed from the weight of the animals in accordance with the following scale:—*Dogs*, 1 c.c. for each 10 lb. of body-weight; *Sheep* under 40 lb. 2.5 c.c., over 40 lb. 5 c.c.; *Pigs* over 10 lb. and under 50 lb. 0.5 c.c. to 2.5 c.c., over 50 lb. 5 c.c. for each 200 lb.; *Horses* 10 cwt. 15 c.c. and 5 c.c. for each additional 2 cwt.; *Chickens* (fully-grown) and *Turkeys* 1 c.c.

Veterinary Notes and Formulas

Cattle

STAGGERS

YOUNG stock are often affected with staggers, due to worms, foreign bodies, etc., in the stomach and bowels. The animal is usually comatose, and staggers in its gait, and loses its equilibrium and falls, where it may lie for an indefinite period. Give a good cathartic, such as magnesium sulphate and aloes, or aloes, calomel and gamboge, followed by stimulants, such as ammon. carb., spt. chlorof., etc., medicaments which will allay the irritation of the bowel. Avoid all solid food, give barley water and milk, and follow up with small doses of olive or castor oil several times daily. Should there be excessive pain give tinct. opii with spt. chlorof., and apply warm cloths either wet or dry over the affected parts. Enemas of glycerin and warm water greatly assist in allaying the pain.

FOOT-AND-MOUTH DISEASE

Everyone concerned with the keeping and marketing of livestock should be aware of their obligations under the Diseases of Animals Acts and Orders thereunder, with special reference—

(a) To the essential importance of promptly reporting suspected cases to the police, and

(b) To the observance of the Foot-and-Mouth Disease (Packing Materials) and (Boiling of Animal Foodstuffs) Orders and the Movement of Animals (Records) Order.

In the initial stages the animals are dull and off their food, and if the temperature be taken it will be found to be higher than normal— 105° F., or even higher in cattle. The first symptoms to attract attention are the sudden appearance of lameness, or slaverling at the mouth in cattle, or both. Lameness in a number of animals should arouse the gravest suspicion. In affected cattle salivation is often accompanied by a smacking or sucking sound, which is a very characteristic symptom of the disease. Slaverling, however, is rarely seen in pigs and sheep, and it is usually sudden lameness which first attracts attention. The earliest stages of the disease are most infective. An examination of the mouth shows the existence of vesicles on the tongue, on the inner part of the upper lip and on the pad. These vesicles contain a clear fluid, and the mucous membrane covering them can easily be stripped off, whereupon a red, raw surface is found beneath. An infected animal seldom refuses food, but rolls it about in its mouth and often drops it instead of swallowing. Blisters form between the toes and on the heels between the hair and the hoof, causing the animal to walk tenderly and frequently to catch up one foot after the other, shaking it as if to dislodge something which is producing pain.

BLACKQUARTER, QUARTER ILL, OR BLACK LEG

Blackquarter is a bacterial disease caused by the blackquarter bacillus. Although it is known to have occurred in many parts of Great Britain for a great many years, no statistics of the number of animals that become affected annually, nor of the districts in which the disease is prevalent, are available, as it has not been scheduled under the Diseases of Animals Acts. The disease appears to be very irregularly distributed, and, even on the same farm, it may occur in some fields and not in others. The danger of infection is greatest on permanent pasture and on uncultivated land, and often disappears when the land is drained and cultivated. The disease is usually prevalent in the early spring and summer, but it also occurs to a lesser extent at other times of the year. For all practical purposes cattle and sheep are the only farm animals that become affected in Great Britain. Cases have been recorded of horses and pigs dying from blackquarter, but these may be disregarded. In this

country cattle are the principal sufferers from the disease, the mortality ranging from 2 to 20 per cent. of the young cattle on infected farms. There are, however, certain districts in which great numbers of sheep are attacked, notably Romney Marsh. Cattle usually become affected between the ages of six and eighteen months. Although calves under six months are susceptible, they seldom contract the disease. Cattle above two years are rarely affected, and it may be said that they become less susceptible with advancing age. In the case of cattle, the earlier symptoms of the disease are sometimes not characteristic, and diagnosis is difficult; but, as the disease progresses, distinctive symptoms appear, and, in districts where blackquarter is prevalent, most farmers recognise them. The early symptoms are dullness, cessation of rumination, loss of appetite, high temperature, harsh and staring coat, trembling and coldness of the legs, feet and horns. Later stiffness, lameness and arching of the back are also noticeable. On closer examination the characteristic blackquarter swelling may be observed under the skin, on those parts of the body covered by thick layers of muscle, such as the upper leg, loin, buttocks, shoulders, chest or neck. The swellings also sometimes affect the tongue, throat, dewlap, genital organs or mammary glands, but are never seen below the knee or the hock, or on the tail. When the swellings are pressed, a crackling noise, due to the formation of gas by the bacilli in the tissues, is heard. As the disease progresses the temperature may rise to a high point, the pulse is feeble and rapid, and dung, which may be bloodstained, is passed involuntarily. Towards the end the animal usually lies motionless, the temperature rapidly falls, and death follows. The disease usually lasts from twelve to forty-eight hours, but in some cases it may be prolonged several days. No form of medical treatment has yet been discovered that can be relied on to cure blackquarter.

Dogs

COLIC

All animals are partial to colic; dogs are very subject to it, especially young puppies, and in these immediate attention is imperative, otherwise enteritis may appear. Usually in puppies the feeding is the cause; in older animals there are various causes, such as exposure, irregular meals, wet skins, and so forth. There are the usual symptoms shown, uneasiness, rolling head and stertorous breathing, trembling and rolling over, elevation of temperature and tucked-up appearance over all. In curing the complaint keep the animal warm, and gently rub the sides and abdomen. Give sod. bicarb. in aq. menth. pip. and if very bad several drops of tinct. opii or chlorodyn. An enema of warm water and soap often acts as a charm. Find out the cause and treat for same. Colic may be due to worms.

INDIGESTION

Indigestion, or dyspepsia, is a very common complaint of young dogs, usually caused by improper and impure feeding, bad water, bad and decayed teeth, or worms, etc. Symptoms are dullness and frequent attempts to vomit, offensive breath, constipation, irregular action of the bowels, and very dry and hot skin. Treatment is, find out the cause, and get it removed by giving mild aperients and enemas, which may be required for several days. Afterwards give:—

Bismuth. carb.	...	...	...	3j.
Sod. bicarb.	...	...	...	3ij.
Pulv. rhei	...	...	...	3ss.
P. carb. ligni,				
Pepsin.	...	...	...	aa. gr. xxv

Divide into twelve powders and give two daily before meals.

Feed on milk, rice, sago, and similar articles of diet, to be followed by small quantities boiled fish and minced lean meat.

RHEUMATISM

This is a disease very common to dogs, and unfortunately not easily cured, and if cured it often leaves after results. It is of two forms, acute and chronic; the latter is not often seen, as the animal is usually destroyed when found incurable. Some dogs are more liable to attack than others; hounds are very susceptible, also sporting dogs, and those exposed to wet and damp. It might be said the disease has an intense relation to weather, season and climate. In the dog the muscles are oftener affected than the joints; often the muscles of the shoulders and chest are affected only, called "chest founder," and in the case of the muscles of the loins and hindquarters "lumbago." In the former the animal screams with pain when made to move. Throughout the attack of the acute form the urine is scanty and high coloured, which is a diagnostic symptom. The disease in dogs is very remittent, and may affect the same animal several times. The symptoms of the disease usually are constipation, more or less, fever, difficulty in moving, lameness, and tenderness of the affected parts. For treatment, give a good warm bath, dry thoroughly, cover with warm wrap, and keep in a warm, dry and airy place. Attend to bowels by keeping them free; if required give pil. hydrarg. gr. v., or an enema and keep them lax. Light and easily digested food of a farinaceous character, fish, milk, and soda water to drink, which can be given with the milk, and on no account give sugar. Internally any of the following can be given:—

Pot. iodid. gr. iv. three times daily in water		
Sod. salicyl. ...	3ij.	Sod. salicyl.,
Pot. iod. ...	3j.	Methyl salicyl. aa. 3ss.
Aq. ...	ad 5viij.	Colchicin. ... gr. iij.
One teaspoonful three times daily.		Aq. ... 3vj.
		One teaspoonful twice daily.

Externally either of the following can be rubbed on to affected or painful parts:—

I		II	
Lin. saponis,		Lin. capsici,	
Lin. capsici aa. 3iv.		Lin. bellad.,	
		Lin. opii,	
		Lin. aconitii aa. p.a.	

Pigs

SKIN DISEASES

Eczema and other skin diseases are usually formed in young pigs that are neglected and dirty. Eruptions are found on thighs, sides and belly, in the form of small blisters that discharge a slight fluid and eventually form scabs. The disease is contagious, and may affect the teats and surrounding parts of the udder or milk glands of the sow. When due to dirt the pigs should be washed with soap and warm water, and, when dry, the sores rubbed with ung. sulph. If young pigs are affected the sow should be given Epsom salts and green food; all heating foods, such as grain, being avoided for a time. Apply to the pigs sulph. flor 3j., ol. olivae 3vj., once or twice a day. If the pigs are old enough to feed give them twice daily in milk or food a teaspoonful of the following:—

Magnes. carbon. ...	3j.
Sod. bicarb.,	
Sulph. flor ...	aa. 3ss.

Old pigs sometimes contract eczema from fatness, poverty, and over-heating; the rash is the same but becomes thickened, and through irritation and rubbing of the parts, raw and bleeding. A cooling lotion is:—

Plumbi. acet ...	3iv.
Liq. picis carbonis ...	3iv.
Aq. ...	ad Oss.

If the parts are bleeding, dust on Fullers' earth three parts, boric acid one part, and powdered alum one part. Zinc or sulphur ointment or a mixture of both should be rubbed on to the parts, and a little Epsom salts given internally. The sty should be cleaned out, all litter burned and the stone and woodwork thoroughly sprayed with disinfectant and limewash.

SWINE ERYSIPELAS

Swine erysipelas is a disease that is more prevalent amongst fat pigs than amongst store animals, and it has a way of attacking fat pigs just on the point of marketing. The prevalence of the disease must not however, be exaggerated. It mostly occurs in the Eastern Counties, but rarely in an epidemic form. Ordinarily its shows itself in odd sporadic outbreaks, which seem to come directly from the soil organism which causes the disease rather than from contact with other pigs. On the Continent, where the disease is much more severe and is usually epidemic, the common method of dealing with it is by way of inoculation. There are two methods: First, inoculation with a preventive serum got from horses whose blood has been highly immunised from this swine disease, and, second, by vaccination of this preventive serum and of pure cultures of the bacillus. The first method ensures immunity for ten days or so and the second for perhaps as long as six months. In a district in Germany, where many thousands of pigs were vaccinated by the combined method of serum and culture, the disease has disappeared entirely. It is not a scheduled disease under the Diseases of Animals Acts, and there is no obligation to report outbreaks to the Ministry for administrative action. A pig-keeper ought, however, to seek advice from his veterinary surgeon, bearing in mind that the serum inoculation is appropriate in cases where disease has already broken out, and that the vaccination is a preventive for use where animals have not taken the disease. This is most important, as it is very risky and unwise to vaccinate where the disease is already present.

Poultry

TREATMENT OF ROUP

Colds are more prevalent at this than at any other time of the year, due chiefly to the weather becoming colder, sudden changes of temperature and damp atmosphere, also at this season the birds are more susceptible to disease, as the older are moulting and the young ones are transferred to other quarters to begin laying. Erratic feeding may also produce disease, as is often done in hastening the laying functions; there is also a deficiency at this time of year of green food (there is an abundance of grass, but it has lost its succulence). Simple colds may develop into such complaints as roup or pneumonia. Roup is practically a severe cold. The attack reduces the vitality of the birds and prevents their laying for months, therefore it is essential to isolate the birds immediately on seizure; when very often a few days will effect a cure, whereas if the animal is left alone the cold may end fatally and also infect others. Quinine treatment is recommended for mild cases, but in more severe cases give oatmeal and milk with a teaspoonful of orange juice amongst eight or nine birds three times daily, along with the quinine. Wash the nostrils with weak solution of lysol, carbolic, or any such-like antiseptic, and immerse the head for a few seconds in solution of potassium permanganate. When several or more animals are affected, and cannot be treated individually, dissolve 3iv. of copper sulphate in a quart of water, and give one teaspoonful in every quart of drinking water (out of an earthenware vessel). Occasionally it is beneficial and necessary to give a tonic for a time. Give the following in the food either moist or dry:—

P. gent.,	
P. zing.,	
Ferri. sulph. ...	aa. 3vj.
Pot. nit. ...	3iv.

One teaspoonful to every twenty birds.

Clean eyes and nostrils with a weak antiseptic. There is another form of roup, diphtheritic roup, which is more dangerous, and very often proving fatal. It is very infectious, and disinfecting precautions are at times of no avail. Should treatment be tried or resorted to, isolate the animals, clean off all matter accumulated in the beak, head, etc., and paint the parts with tincture of iodine or solution of silver nitrate. Give strengthening food, and a few drops of whisky occasionally, more so before and after handling.

The Tyranny of Social Insurance

By R. Pattou

Monsieur R. Pattou, Echevin of the City of Brussels and a distinguished pharmacist well known in British pharmaceutical circles, has been good enough to favour us with the following notes, pointing out the inadequate terms offered to doctors and chemists under conditions of social insurance.

WE are witnessing, at present, in Belgium as in France, an outburst of intense feeling among doctors and chemists. Similar agitation is usual wherever social insurance makes its appearance. The emotion takes its source in the spirit of demagoguery which inspires all the political mandarins and high priests of the social insurance movement. It is piquant to consider that, wherever this problem exists, the interests of the medical and pharmaceutical professions are sacrificed. The cause must be looked for in a source which is applicable to all countries. This cause consists simply of a numerical inferiority of doctors and chemists as compared with the insured and compliance of politicians with the majority. It must flatter the avarice of the pontiffs of insurance who seek zealously to carry out the insurance plan with the least expense, by looking to medicine and pharmacy for a cheap deal. There are few legislators who desire publicly to recognise the legitimacy and equity of adequate remuneration for doctors and chemists in matters of social insurance. Anxiety for the sick is sacrificed to the desire, more interesting to the political mind, of obtaining medical and pharmaceutical service at low rates. The suggestions to re-establish the claims of doctors and chemists, which are bound up with the interests of the sick, are identical for every country, and receive throughout the same passive and obstinate resistance. Here are several principles:—Free choice by the insured person of any doctor or chemist; adequate remuneration of practitioners in accordance with the high social and scientific value of the art of healing; complete independence of practitioners, permitting them to conscientiously exercise their profession. It is also curious to establish that wherever politicians have desired to give free play to their preoccupation of flattering the masses, in matters of social insurance, they have adopted a tyrannous and systematic opposition to the great principles of the medical and pharmaceutical bodies. They are completely unconcerned with the sole important question—the care of the sick. These principles are in absolute accordance with the primary interests of the insured themselves, who, guided by the high priests of social insurance, allow themselves to be easily fooled. Little importance is attached to the fact that the welfare of the insured might suffer. In every country it is observed that the sole care of the demagogues, who defend with eagerness what they consider their syndical principles when they agitate to establish their own salaries, is to struggle against adoption of the principles of the syndicates of doctors and chemists when they agitate for them. To strive against the legitimate rights of the latter bodies, any methods are acceptable. That insured persons might suffer, little they care!

AN EXAMPLE

I will cite an actual example:—The town of Antwerp comprises about 400,000 population. All the pharmacies of the town, with one exception, numbering 123, agreed to offer their services to the friendly societies conditional on a tariff responding to an index number of 700, although the cost of living index number is in the region of 900 in Belgium. The representatives of the friendly societies, who for their own benefit demand equal distribution and multiply their pre-war salaries by the coefficients 9-10-11, etc., refuse an index of 700 to the chemists and offer them one of 400. Two dispensaries have accepted. One is an official State establishment and the other belongs to the friendly societies. The railway workmen's fund forces the

members, numbering 400,000, to deal exclusively with two dispensaries. The consequence of such an anti-social and tyrannous system becomes apparent. All such workers, or members of their families, are obliged to travel two, three or four kilometres on foot or by tramway, with the loss of one or two hours' salary, to obtain the necessary medicines which they could easily have had at any of the 123 pharmacies in Antwerp. A supplementary subscription of 3.50 francs per month on a monthly salary of 1,200 francs minimum would make it worth while for the chemists and ensure the comforts and security of the insured. That is an example among thousands. Doctors and chemists will be reduced to servitude by the potentates of social insurance, and everywhere the practices of medicine and pharmacy are in peril. There is no redress from Governments. The audacity with which the demagogues are placed in contradiction with themselves was clearly established by an order passed on January 12 at Brussels, during an assembly of 400 delegates of Belgian pharmacy. Here are the terms of the order:—The Belgian chemists request the representatives of the friendly societies—nearly all syndicalists—not to show to the country that they have two principles diametrically opposed to one another, one serving to fix their own salaries and the other when fixing the salaries of others. They particularly invite those who take as a basis for their professional protection the authority of a syndicate, not to refuse to recognise the authority of the syndicate of pharmacists, in this case the Nationale Pharmaceutique; those who take as a basis for their salary the figure of the index number, not to refuse this same figure to others to whom they pay salaries; those who in cases of dispute go to extremes, not to combine in an effort to defeat the actions of the syndicate or cause unnecessary expense.

There is the cynicism of the Governments for the one part; the absolute intransigence of the pontiffs of insurance for the other part; the whole obtruding imperiously on all the members of the great medical and pharmaceutical bodies. The unanimous adherence of doctors and chemists to their respective professional syndicates is essential, as well as energetic leadership and compliance by the members.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1930, p. 341.

(From "The Trade Marks Journal," September 3, 1930.)

ALTERATION OF REGISTERED TRADE MARK.

According to the "Trade-marks Journal" of September 3, 1930, leave has been given to Cooper, McDougall & Robertson, Ltd., to alter the trade-mark No. 59,314 in Class 2.

(From "The Trade Marks Journal," September 10, 1930.)

Circular design of paddle steamer with the word "ILFORD" on flag at mast; for photographic goods (1), (8) and (39). By Ilford, Ltd., Ilford. 514,881/882/883. (Associated.)

"GLACTIS"; for agricultural chemicals (2). By E. J. Reid & Co., Ltd., 35 Gordon Square, London, W.C.1. 512,853.

"PUREMO"; for all goods (2). By L. Lonsdale, Ltd., The Mill, High Street, Bexley, Kent. 514,636.

"FLYFLASH" for insecticides (2). By A. Blau, Windsor House, Ropemaker Street, London, E.C.2.

"PAPOIDS" with circular seal device; for indigestion tablets (3). By Johnson & Johnson (Gt. Britain), Ltd., Fairlie Road, Slough, Bucks. 512,635. (Associated.)

"QUADRO-NOX"; "QUADRONAL"; for medicinal chemicals (3). By Asta Aktien Gesellschaft Chemische Fabrik, 112 Fabrikstrasse, Brackwede in Westphalia, Germany. 514,584/585. (Associated.)

"PRÉLAC"; for scientific apparatus, etc. (8). By L'Accessoire de Précision, 76, Rue Gide, Levallois-Perret (Seine), France. 513,408. (Associated.)

Trade Notes

VETERINARY REMEDIES.—The attention of veterinary chemists is called to the coloured advertisements in this issue wherein will be found announcements of particular interest by the following manufacturers:—**BATTLE, HAYWARD & BOWER** (Stokalin); **J. C. M. BATTLE** (vermin killer); **BENBOW'S DOG MIXTURE CO.** (dog mixture and soap); **BIRD & STOREY** (Botanic Essence); **ROBERT BLACKIE** (Kinosalve); **CATALINE CO., LTD.** (Cataline); **COOPER, McDUGALL & ROBERTSON, LTD.** (dog medicines); **J. H. CUFF & SONS** (fly oil and foot-rot remedies); **THE DENVER CHEMICAL MANUFACTURING CO.** (Antiphlogistine); **FREUDENTHEIL, SMITH & Co.** (cod-liver oil); **THOMAS HARLEY** (Rodine); **HARVEY & Co., LTD.** (horse remedies); **HIRST, BROOKE & HIRST, LTD.** (Gell's Foot-Rot Ointment); **LOFTHOUSE & SALTNER, LTD.** (veterinary products); **JOHN MCGUFFIE & Co.** (dog medicines); **BOB MARTIN, LTD.** (Martin Milk); **THE MOND STAFFORDSHIRE REFINING CO., LTD** (Monsol veterinary remedies); **PARKE, DAVIS & Co.** (worm capsules); **THE RADIOL CO.** (Radiol); **A. F. SHERLEY & Co., LTD.** (dog and cat medicines); **WRIGHT & HOLDSWORTH** (Naldire's dog soap).

EASOFF is a tonic chewing gum of which Twyford Co., Ltd., Cullompton, Devon, give further particulars elsewhere in this issue.

DAYLIGHT SIGNS.—Allan Manufacturing Co., Ltd., 129 Gray's Inn Road, London, W.C.1, specialise in signs suitable for individual or national advertising.

ANDREWS LIVER SALT.—Scott & Turner, Ltd., Gallowgate, Newcastle-on-Tyne, inform us that there is a bonus offer available in connection with Andrews Liver Salt until November 8.

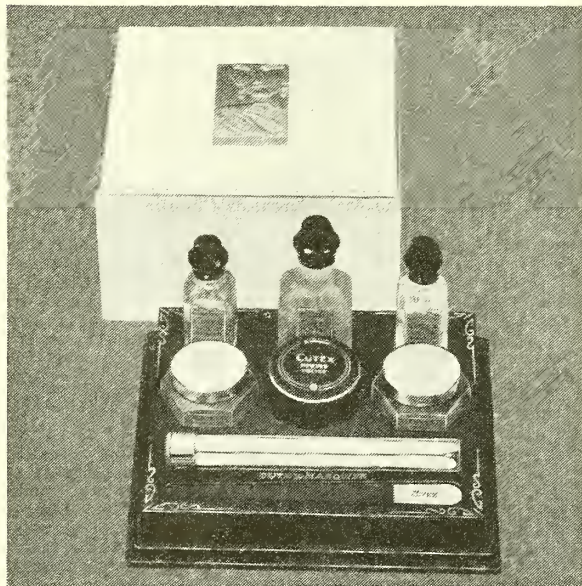
BENBOW'S DOG MIXTURE CO., 2 Bartholomew Close, London, E.C.1, have issued two excellent "doggy" posters (15 in. by 21½ in.), the one to draw attention to their well-known dog mixture and capsules, the other relates to their dog soap.

ACID-PROOF STONEWARE.—F. Weinreb, 16 Devonshire Square, London, E.C.2, is representing in this country Deutsche Ton- & Steinzeug Werke, A.G., Berlin-Charlottenburg. Among the wide range of articles manufactured by the company and of interest to *C. & D.* subscribers may be mentioned grinding mills, percolators, developing tanks and mixing vessels. An illustrated catalogue will be sent on request.

COOPER, McDUGALL & ROBERTSON, LTD., Berkhamsted, have only of comparatively recent times begun to advertise dog soaps and remedies. The present range of dog preparations comprises Liquid Sopex, Kur-Mange, Pulvex and Kerol capsules. The first three, which are for external cleansing, have a vegetable base which is stated to be non-poisonous and non-irritant, but a powerful agent against parasites. Kerol capsules are recommended for use in ailments due to poisons formed by germs in the intestines.

WELLCOME PHOTOGRAPHIC DIARY.—Examination of the 1931 edition of the "Wellcome Photographic Exposure Calculator Handbook and Diary" shows that the publishers have kept a watchful eye on the alterations and new products introduced during the year by the manufacturers of sensitive material. An entirely new article, "Colour rendering in Monochrome," concentrates, as is the custom with this compact publication, a wealth of sound information in a minimum of space. In these pages the subject is dealt with by the inclusion of tables giving the best filters to use with various subjects and the results obtainable, and another table showing which filters to use with various panchromatic plates and films and how much the exposure is increased in each case. All the other features are maintained and brought up to date. Four editions are issued; Northern Hemisphere and Tropics; Southern Hemisphere and Tropics; Australasia and Tropics and United States of America.

CUTEX PRODUCTS AS CHRISTMAS GIFTS.—J. C. Gambles & Co., Ltd., 211 Blackfriars Road, London, S.E.1, are introducing for Christmas trade some noteworthy Cutex nail polishing outfits. As will be seen from the accompanying illustration of No. 25B, a tray—made of bakelite—is designed to hold standard Cutex preparations, while No. 18B is slightly larger, as it contains a few



additional accessories. Presented in this manner these well-known products of the Northam Warren Corporation will be more welcome than ever on the dressing table, particularly as the colour scheme is not likely to be antagonistic to the other toilet accessories usually found there. Another Cutex line suitable for Christmas trade is the Perfumed Polish and Polish Remover. A bottle of each is packed in a highly artistic carton.

KELLY'S DIRECTORY OF THE CHEMICAL INDUSTRIES, 1930, which has just been published (pp. xxx+1,104, 30s. post free; 186 Strand, London, W.C.2) is the eighteenth edition of this well-known work of reference. The task of revision and correction for this edition has been fully as heavy as for any of its predecessors, and the book is in every way worthy of the well-known series of trade directories of which it forms part. This Directory embraces England, Scotland and Wales, and it contains the names and addresses of those engaged in the many branches of the chemical industries, both the manufacturing and selling branches being adequately dealt with. The following headings (selected from a total of some eight hundred) should give an indication of the wide scope of the information supplied:—Chemists and druggists; bottle manufacturers; chemical manufacturers (more than ninety separate headings); chiropodists; dentists; hospitals and dispensaries; opticians; patent medicine vendors; perfumers; photographic dealers; mineral and soda water manufacturers; veterinary surgeons. The book comprises:—(1) A places section, giving the names for each county, arranged alphabetically under the town and villages; (2) an alphabetical classification of trades for the London postal district, arranged with the names under each trade heading in alphabetical order; (3) a similar classification of trades for the rest of England, Scotland and Wales. There is also an alphabetical list of branded articles and specialities in the chemical industries, together with the names and addresses of the manufacturers.

Marriages

HOWES—REDDALL.—At St. Paul's Church, Cliftonville, Margate, on October 1, Philip G. Howes, chemist and druggist, Southsea, Portsmouth, to Anne E. Reddall, chemist and druggist, Lee-on-the-Solent.

MILLER—MARSHALL.—At Kensington, London, W., recently, Thomas C. Miller, chemist and druggist, Dunfermline, to Marjorie Suttie Marshall.

Deaths

CHUNILAL BOSE.—In Calcutta, recently, Dr. Chunilal Bose, C.I.E., I.S.O., M.B., chairman of the Bengal Chemical and Pharmaceutical Works, Ltd., aged sixty-nine. Of Dr. Chunilal Bose's distinguished career, Dr. David Hooper, Ph.C., writes:—

The death of Dr. Chunilal Bose removes one of the first Indians who interested himself in the chemistry of medicinal plants. In the early 'eighties Chunilal Bose was an assistant to Dr. C. J. H. Warden when he was chemical examiner to the Government of Bengal; together they worked on the active principles of many Indian drugs, and the results of their research appeared in the "Chemical News" and the "Pharmacographia Indica." Embelia berries, coca leaves and the mudar plant were the subjects of a few of these investigations. On the promotion of Dr. Warden to the post of principal medical storekeeper, Dr. Chunilal Bose remained in the chemical examiners' department, and became specially skilful in the determination of poisons in toxicological inquiries. He was also lecturer in chemistry at the Medical College, and published several papers on medicine and drugs in the "Indian Medical Gazette." On the staff of the College and on the Senate of the University of Calcutta, where he reorganised the medical curriculum, he was highly esteemed by his colleagues, both European and Indian. For his services under Government he was awarded the honours of "Rai Bahadur" and Companion of the Indian Empire. Dr. Bose was a great social and temperance worker.

DOUGLAS.—At 19 Prince's Square, Strathbungo, Glasgow, on October 3, Marie Stewart, beloved wife of Mr. J. Reid Douglas, Ph.C., managing director of Frazer & Green, Ltd., chemists, Glasgow.

HARRINGTON.—At 6 St. Stephen's Road, Ealing, London, W., on October 5, suddenly, Mr. John Frederick Harrington, chemist and druggist, a past-president of the Pharmaceutical Society of Great Britain, aged seventy-six. Mr. Harrington's early experience of the trade was gained at Rochford, where his father had a good business. Before coming to London he commenced on his own account at Southsea as a chemist and mineral-water manufacturer. Mr. Harrington carried on business for many years in High Street, Kensington, London, W.8, first at No. 45 and afterwards at No. 15 in a handsomely



MR. J. F. HARRINGTON

fitted shop erected in 1909. In 1898 he became president of the Western Pharmacists' Association, an office which he filled for two years; a few months after his election to the chair he was co-opted a member of the Council of the Pharmaceutical Society in place of Mr. Robert Hampson, who had retired. This was the first occasion on which a chemist and druggist had obtained a seat on the Council, the Pharmacy Act of that year having given power for the first time to elect as councillors others than pharmaceutical chemists. Mr. Harrington did useful work as chairman of the

Finance Committee of the Council, and his services were recognised by his election in 1906-09 as vice-president, and in 1909-11 as president. Mr. Harrington, who was well known in metropolitan masonic circles, retired from the Council in 1918, but remained in business till 1920, when he disposed of his pharmacy to Mr. W. C. Inman, chemist and druggist.

WILSON.—At his residence, Belvedere, King's Road, Belfast, on October 6, Mr. Andrew Wilson, M.P.S.N.I. Mr. Wilson had been in failing health for some time, and only in the previous month intimated that he would not be a candidate for re-election to the Council of the Pharmaceutical Society of Northern Ireland, of which he had been a member since it was set up by the Pharmacy and Poisons Act (Northern Ireland), 1925. He served his apprenticeship to the late Mr. James Guiler, Ormeau Road, and after passing the Licence examination of the Pharmaceutical Society of Ireland set up on his own account on the Albertbridge Road, where he built up a very extensive connection. Mr. Wilson was a prominent figure in the North Irish Pharmacists' Association and the Ulster Retail Drug Trade Association, a member, in the old days, of the Pharmaceutical Society in Dublin, and a Past Master of Galen Masonic Lodge, 439. He was highly respected by all members of the trade, and the news of his death caused widespread regret.

Personalities

MR. JOSEPH W. NICHOLSON, chemist and druggist, managing director of J. Cowper, Ltd., chemists, Penrith, was at the recent annual installation ceremony of the Ullswater Lodge of Freemasons, Penrith, elected Worshipful Master. Mr. Nicholson is also this year's president of the Penrith Chamber of Trade. Among the large assembly of brethren present at his installation were the following, who are associated with pharmacy in Penrith:—Wor. Bro. J. Cowper, Bro. R. Bowman, Bro. D. Crowden, Bro. F. Fawcett and Bro. L. Smedley, also Bro. Philip S. Robbins (Evans Sons Lescher & Webb, Ltd., Liverpool).

MR. ALEXANDER GUNN, chemist and druggist, has retired from the editorial staff of "The Pharmaceutical Journal" after twenty-seven years' service, including fourteen years as assistant editor. Mr. Gunn studied at the Bloomsbury Square School of Pharmacy, and, after qualifying in 1886, had experience in the manufacture of galenicals prior to joining the Journal staff. He read papers on scientific subjects at the meetings of the old London Chemists' Assistants' Association, and his name appears in the general indexes of "The Year-Book of Pharmacy." In looking through old volumes of THE CHEMIST AND DRUGGIST the other day we noticed articles specially contributed in the 'nineties by Mr. Gunn on tincture of saffron and other subjects, based on research carried out in the laboratories of Fletcher, Fletcher, & Co., Ltd. In more recent times he served on the revision committee of the British Pharmaceutical Codex. Mr. Gunn has numerous friends in metropolitan pharmacy, and many good wishes will follow him in his retirement.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

F/110. Alpha brand dropper bottles	H/310. Monk's balsam or balm
E/810. Armenia cream	L/710. Metamorphosa
N/810. Black Forest tea	E/810. Minora syrup
L/610. Chat d'Or invalid acid drops	M/810. Somnital
M/309. Elliott's eye shades	W/710. Sunnycomb glucose
M/810. Embritol	D/308. Velvas bottles
N/810. Feltham cream	H/210. Wayne's Coloseptic (London source)
	E/710. Woodruff's vermatone

Observations and Reflections

By Xrayser III

Delegates

appointed to attend meetings ought to be assured of a reasonable allowance towards their travelling and maintenance expenses; and if this is not the case where branches of the Pharmaceutical Society are concerned, the figures upon which Mr. Neathercoat commented at the latest meeting of the Council (*C. & D.*, October 4, p. 431) should not occasion any surprise. That more than half the possible number of delegates should have attended the Cardiff Conference at their own expense, if this were actually the case, should have been regarded as a matter for congratulation, rather than as providing an opportunity for animadverting upon the absence of the remainder. Apropos of Mr. Neathercoat's statement that the meetings afford an opportunity for delegates officially appointed to take a part in shaping the policy of the Society when important matters are under consideration, I should like to feel that this correctly represents the position; but it is to be feared that the views of delegates generally upon this point would not be found to lend support to the statement. Full meetings of delegates may be encouraging to those who summon them, as indicating a healthy interest in the matters to be discussed. They are unlikely, however, to prove of much avail if they are devoted mainly to prolonged speeches and long-drawn-out explanations from the platform, with inadequate opportunity for the delegates to talk and present the difficulties felt by those they represent.

Other Matters

dealt with at the Council meeting included, according to an official statement, consideration of the report of the Departmental Committee; but nothing is disclosed regarding what was discussed, or what conclusions, if any, were arrived at. So we go on and yet remain in a state of happy or unhappy ignorance. Nothing has yet been revealed officially concerning the delegates' meetings at Cardiff, and I am disposed to think that it is not intended to publish any report of those meetings. Meanwhile an impression prevails that the only policy to which the Council of the Pharmaceutical Society can at present lay claim, on the subject of the draft Pharmacy and Poisons Bill, is one of drift. Else the members of the Society should surely, by this time, have received some general guidance, at least, with regard to their attitude towards the revolutionary proposals of the Departmental Committee. The published impressions of delegates do not convey that anything of the kind happened at Cardiff, and now the Council has met once more, after the inspiration of the delegates' meetings, but still without there being anything to report. It may be that important decisions have been made, and that announcements of them are being reserved for star turns by the president and other members of the Council when they attend gatherings of chemists and druggists during the coming winter session. On the other hand, it is just as likely that it is the old story of waiting to see how the cat jumps, and that no serious decision on important points is yet in sight. But I must express my personal disappointment that matters have not yet progressed to the stage at which the members of the Society should receive some enlightenment about the course of events. Mr. Neathercoat, in the course of scolding the Society's branches, made the remark that the Council is doing its part. But is it? Evidence on this point is not at present forthcoming, and until it is we must be permitted to harbour sceptical thoughts, whether we give utterance to them or not.

It is Well

that your correspondent "Quackem" (p. 440) should point out some of the difficulties attendant upon any scheme which might be formulated to deal with quackery. There is no doubt that the credulity of the public, often emphasised by prolonged unalleviated suffering, does make it most unlikely that the machinations of the determined quack can ever be altogether circumvented. But past experience shows that a courageous publicity, reinforced by a display of an educated and judicious frankness on the part of the medical profession, can do very much to mitigate what is a very cruel evil. Some of your older readers can recollect the days when the advertising columns of daily papers and weekly journals carried the propaganda of those filthy folk who exploited the morbid hypochondriacal fears of young men, and women, respecting slight abnormalities of the sexual functions. The great, the very great, improvement seen when a comparison is made with those days is most remarkable, and cannot, perhaps, be appreciated by those whose memory does not carry so far back. For these latter a short reference to the revelations made by Dr. F. B. Courtenay, of Chandos Street, in 1865, may bring some encouragement as to the possibility of further improvements being accomplished in the future.

This Dr. Courtenay

set out to expose the character and procedure of the detestable individuals who operated more particularly from London as a centre. Every large town had its contingent of men similarly occupied. The kind of claptrap wherewith they baited the hook for their silly gulls cannot be altogether unfamiliar; it was met with in the circulars surrounding the packages of not a few of the old proprietary medicines. The audacity of these people and the assistance they obtained from certain sections of the Press are truly astonishing, and could not be tolerated to-day. Courtenay put into his letters (of which there were eleven) to the "Medical Circular" the names and addresses of the most prominent of the London quacks, and cited many cases of their high success in extorting from their victims sums of money such as would lend an air of golden romance if incorporated in an Edgar Wallace story concerning "dope" addicts. The "Saturday Review," when Courtenay's account was published, estimated that the profits of one of the fictitious doctors' establishments must have reached £30,000 per annum, and that the advertisements, including posters and handbills, cost from £12,000 to £15,000 per annum. The present rates for advertisements and for printing would at least double these figures. To-day, self-medication is in the ascendant and requires treatment of a different order. The law can now, to some extent, restrain the impostor, but the self-deluded person falls into another category.

The Number

of proprietary medicines must have very greatly increased since the time of 1865. I have before me a small "Catalogue of Proprietary Medicines and Miscellaneous Articles" issued by a well-known firm of wholesale dealers in that year, and the number of items specified is under 2,000. Of these a large proportion includes feeding-bottles, marking inks, respirators, tooth-brushes, perfumes, veterinary medicines, etc., so that the actual number of remedies for human use will, perhaps, not exceed 1,000. The list of preparations of this class to-day is vastly increased. The finest agent to arrest this flood of self-treatment would be a revival (I am not sure whether that is the right word—should it be a "begetting"?) of confidence in the general practitioner. How is this to be brought about?



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Editorial Articles

The Departmental Committee's Report :

Pharmacy

THE changes in the control and sale of poisons suggested in the report of the Departmental Committee on the Poisons and Pharmacy Acts were of such importance as to justify an analysis of those propositions first. We now take up the part dealing with pharmacy, and in order to appreciate this part of the subject it is necessary to study the Report itself, to explain better the deficiencies in the provisions of the draft Bill dealing with pharmacy. Right from the beginning, either at the first or second meeting, the Committee decided that their terms of reference —2 (ii)—“did not permit the extension of their inquiry to matters unconnected with poisons, except in so far as those matters were implied in or were immediately subsidiary to questions connected with poisons.” It is well to bear in mind this, presumably for some members of the Committee, self-denying ordinance, and see later on how far logic guided the minds of the Committee in relation to pharmacy *per se*. True, they admit that the principal result of this decision was that “dispensed” medicine apart from “poisons,” as well as the business of a pharmaceutical chemist or chemist and druggist, received the cold shoulder. In view of this, it would have been interesting to know why certain persons were called upon to give evidence, and why, from others, only a memorandum was desired for guidance. However, since the evidence or memoranda are not available we must be satisfied to cull from the Report itself why some things were allowed and others disallowed. In general, it will also be necessary to examine more closely the reservation and the minority report. There seems something wrong in the popular conclusions drawn if we are to accept the reported attitude of the delegates at the Cardiff meeting. But first things first, and we find in Part I of the Report quite a pleasurable clarity of mind in the Committee on simple things. “It is to be observed that the scheme of the Poisons and

Pharmacy Acts does not distinguish the law relating to the practice of pharmacy from that relating to poisons." Quite so! Pharmacy was in existence and legislated for when the State only thought of one poison, which it embodied in the Arsenic Act. Clearly within the realm of pharmacy there were medicinal poisons and potent drugs, while medical men, then and now, only dabbled in dispensing because they were not sufficiently distant from the old-fashioned idea of a doctor's shop. It was in 1868, largely through an accidental industrial poisoning case, that the legislature dumped poisons without any differentiation upon pharmacy. The mistake then was to conceive industrial poisons as a mixture of poisons and pharmacy. The legislature then, as it may possibly in the near future, began fumbling towards some conception of poisons, medicinal as well as industrial, which is a practical impossibility. The two things were separable, and they are separable now with the clear notion that only satisfactorily trained persons—pharmacists—should be allowed to dispense poisons and potent drugs, and the logical sequence of that is that medical men are not trained for the purpose of dispensing or supervising dispensing. Their province lies in the therapeutic side and prescribing. When it comes to industrial poisons, it should be quite competent for a Poisons Board to supervise without interfering with pharmacy. It is this mixing of the subject of medicinal poisons with industrial poisons which confused the Committee, confuses our own people, and looks like confusing Parliament too, to the detriment of practising pharmacists. The Report says in paragraph 7: "The distinction between these two things, Poisons on the one hand and Pharmacy on the other, is obvious. . . . Their severance, while it presents no difficulty, offers, in our opinion, great public advantages." Apparently they were the only people who saw it presents no difficulty, but accepting that statement, in what way are there any advantages in taking out the control of poisons and entrusting this task to an *ad hoc* committee? Any *ad hoc* committee, in self-defence, must accept the principle of safeguarding the public from misuse of poisons due to easy sales, distribution, or transport, but what an *ad hoc* committee will never do is to accept such things bordering on "de minimis non curat lex" as poisons. This is fundamentally monopolistic in tone, which certain sections of the community are sure to resent. Whether it is an advantage or not to separate medicinal poisons from pharmacy for secondary administration is open to question. Obviously, any man who knows anything about the infinite variety of potent drugs approximating frequently in their activity to the present scheduled poisons subscribes readily to the view that "mechanical regulations as to storage . . . are of small value, and that the real security is the training and knowledge of the pharmacist." In the same paragraph of the Report we read: "It is, without doubt, desirable that the profession of pharmacy should hold out sufficient hopes of reward to ensure a high standard of training and efficiency in its members; on the other hand, any claim savouring of monopoly in the control of poisons breaks down in the face of the facts as they exist to-day." We have already pointed out that pharmacists think in terms of poisons as used in medicines, and the Committee thought in terms of industrial poisons, with medi-

cinal poisons nebulously lurking in the hinterland of their minds. Having come to the conclusion that the Poisons and Pharmacy Acts have resulted in "a patchwork of provisions, often confused in form and overloaded with detail," the Committee sets out five objects it would apparently like to achieve:—

- (1) To distinguish between pharmacy and poisons;
- (2) To strengthen the representative character and the disciplinary powers of the Pharmaceutical Society of Great Britain in their relations to the profession of pharmacy;
- (3), (4) and (5) matter very little in this argument, as they relate solely to poisons being severed from and administered apart from the strengthened Pharmaceutical Society of Great Britain.

This is progress to be made, and pharmacy, with a strengthened Pharmaceutical Society, is to hold out "sufficient hopes of reward to ensure a high standard of training and efficiency in its members." Unfortunately, the report does not tell us how this objective is to be achieved, unless it is some magic consequence of disciplinary powers. A variety of causes make it quite a plausible feature of any legislation to separate and consolidate the rules and regulations which govern the sale, supply, storage and transport of industrial poisons, and it is difficult to see how any proposition carrying this into effect could be resisted. The great fear, and there are substantial reasons justifying that fear, is that an essentially external body will devise rules and regulations, and the only saving grace will be that the Pharmaceutical Society would be empowered to carry out the inspection for pharmacy, an advantage one must admit, but one fraught with danger. Such administration may be the pathway towards rationalising the rules and regulations under the Dangerous Drugs Acts, a desideratum devoutly to be wished. It must be admitted that chemists are justified in being apprehensive of the changes suggested. One thing which would have made the proposal more palatable is left over for future development by negotiation or otherwise—that is the objective of securing the principle of the National Health Insurance Acts being applied throughout. To pharmacists, the first thing in any Pharmacy Bill should provide the means to hasten the day when all medicines are to be compounded and dispensed by those trained for the purpose. It is not enough to leave the matter open, and the means provided through a Poisons Board are insufficient, unless that Board is going to have power to schedule not technical poisons only but potent drugs liable to misuse. But the recurrent doubt comes—will not a Poisons Board find itself tied by its own creation with undefined words? There is grave suspicion of misuse in potent drugs now, and in view of the increasing development of synthetic compounds with a very small dosage which a pharmacist appreciates, would a largely constituted official board deem these drugs to be within the poison line when no direct poisoning cases could be alleged? It is only by strengthening pharmacy in the direction of compounding and dispensing medicines that true safety for the community rests. Before we proceed to other details and the conclusions to be deduced therefrom, we cannot possibly overlook the important fact that the handling, compounding, and dispensing of all medicinal poisons

are essentially pharmaceutical operations, and better and more adequate provision should be made to meet this position. We cannot escape from the real danger line of "When is a poison not a poison" owing to a minimum amount being present, nor from the limitation of words used in legal documents. It may be considered by non-pharmacists that a point is immaterial with which non-technical minds readily acquiesce, and the damage is irreparable save by new legislation. This is a real danger to the pharmacist, since it is materially on a small dose of hyoscyamus in colocynth and hyoscyamus pills whether these should be regarded as a poison or not. To multiply such instances gives no help; it is a material part of pharmacy that medicinal poisons in all strengths come within and not without the practice of the craft, and pharmacists are justified in being sensitive over the setting up of a body likely to deal with poisons in the abstract and not in relation to education and training. On this point we may conclude this preliminary survey of the pharmaceutical portion of the Report. There are several other points we hope to deal with subsequently, but the essential factor disturbing to pharmacists is the danger which may arise from a Board conceived for industrial purposes dealing at the same time with the medicinal aspect, and being constituted with a hopeless minority of pharmaceutical representatives.

The Position of Gum Acacia

CONSIDERABLE interest continues to be shown in the Sudan gum acacia market on account of the continued fall in values since the commencement of the year. As we have previously forecasted, the high prices asked for the old crop between the months of January and March last were against any known factor, and were bound to have a set-back, as the demand from the principal consuming countries was expected to be well below normal. When it is taken into consideration that in January last cleaned Kordofan gum realised up to 95s. per cwt. c.i.f. afloat, and at the present moment October shipment can be purchased at 51s. per cwt. c.i.f., the significance of the heavy decline will be appreciated. The fact that a serious crop failure in 1929 was responsible for practically no "carry over" at the commencement of this year, was looked upon in certain quarters as the forerunner of a further period of high prices, and despite the fact that daily arrivals of Kordofan in the Sudan were satisfactory, considerable forward buying was done at very high prices. Even to-day gum is still arriving on this market from the Sudan ear-marked against purchases made at between 65s. and 75s. per cwt., with the result that the London stocks are increasing in the same ratio as those of the principal consuming centres. The following are the official figures of shipments made from Port Sudan for the corresponding periods of the last two years:—

	November 1, 1928, to end of August 1929	November 1, 1929, to end of August 1930
	Tons	Tons
Kordofan	13,284	14,260
Talha	2,665	2,186
Bleached	155½	88½
Gum siftings ..	83	24½

According to these statistics it is established that up to the end of August this year more than 1,000 tons of Kordofan gum have been shipped to the various ports in excess of the quantity exported at the corresponding period last year. In other directions it is estimated that the present stock of Kordofan gum in the Sudan exceeds 2,000 tons, whilst in addition a further 500 tons arrived during September; consequently, the total crop of Kordofan this year is much larger than at first anticipated, and is estimated at approximately 3,500 tons more than last year. Against this, the bleached gum—the druggists' quality—has been much neglected at origin this season, and the shipments are only little more than half the quantity exported during the previous year, with the result that prices for No. 1 and No. 2 bleached acacia have been exceedingly firm, and are likely to remain so in consequence of the small supplies available. It is always impossible to gauge the price of bleached against that of cleaned, as the natives generally neglect to prepare the gum for bleaching, when the price of the ordinary Kordofan quality remains high. Regarding future prospects, it is, of course, much too early to venture a definite opinion on the possibilities of the new crop. The fact remains, however, that buyers were badly bitten in consequence of the many false reports broadcasted during the early period of the current year, which it will be recollected caused such remarkable fluctuations over a very brief period. On this account consumers are very chary about operating, feeling that with the increased amount of gum unsold at the leading centres, there is little possibility of prices advancing to any extent over the next few months. Whilst it is quite impossible to forecast with any degree of accuracy the future trend of the new crop, the anxiety to sell on the part of several shippers the early positions, such as December-January shipment, is likely to make buyers extremely cautious before entering into any commitments.

Inquiry on Drugs in India

A COMMITTEE has been appointed by the Government of India to examine the variations in quality in the principal drugs and chemicals on sale in the country. The terms of reference are as follows:—

- (1) To inquire into the extent to which drugs and chemicals of impure quality or defective strength, particularly those recognised by the British Pharmacopœia, are imported, manufactured or sold in British India, and the necessity, in the public interest, of controlling such importation, manufacture and sale, and to make recommendations;
- (2) To report how far the recommendations made in (1) may be extended to known and approved medicinal preparations other than those referred to above, and to medicines made from indigenous drugs and chemicals; and
- (3) To inquire into the necessity of legislation to restrict the profession of pharmacy to duly-qualified persons, and to make recommendations.

The committee consists of Lieutenant-Colonel R. N. Chopra, M.A., M.D., L.R.C.P., M.R.C.S., I.M.S., Professor of Pharmacology, School of Tropical Medicine and Hygiene, Calcutta (chairman); the Rev. Father J. F. Caius, S.J., Pharmacologist at the Haffkine Institute, Bombay; Mr. H. Cooper, Ph.C., F.C.S. (Smith, Stanstreet & Co., Ltd., manufacturing chemists, Calcutta), Maulvi Abdul Matin Chaudhury, M.L.A.; and a secretary. It will visit important centres in the provinces, and will take evidence on the questions stated in the terms of reference. It will also issue a *questionnaire* to selected persons and bodies.

THE ROAD TRAFFIC ACT AND ROAD MOTOR TRANSPORT.—A pamphlet dealing with provisions of the Act affecting owners and drivers of commercial motor vehicles has been compiled by Mr. F. G. Bristow, general secretary of the Commercial Motor Users' Association, and may be obtained free on application to the Association at 50 Pall Mall, London, S.W.1.

How the Chemist is Affected by National Health Insurance

Abstract of an Address delivered to the South-West London Chemists' Association and Branch of the Pharmaceutical Society on October 3, 1930

By Jean K. Irvine, M.B.E., M.P.S.,
Superintendent of the South-Eastern Pricing Office

THIS subject naturally falls into two headings—first, the position of the chemist prior to 1913, and, secondly, the present position after seventeen years' work as dispensers to the nation.

Position of the Chemist Prior to 1913

Before attempting to estimate the magnitude of the change which the National Insurance Act has made in the position of the chemists of this country, it is necessary to take our memories back to pre-insurance days, and, having realised the position and nature of the business of the chemist in those days, compare it

with that of the present time. Up till seventeen years ago many chemists in England never dispensed a doctor's prescription; those chemists who did any dispensing were frequently under contract with a doctor who had arranged with the chemist to "dispense" all the prescriptions for his society or club patients at a low charge. In some cases the charge was 4d. or 6d. per prescription, and some dispensaries even supplied medicine for as low a sum as one penny for any medicine prescribed, patients bringing their own bottle. A



MRS. IRVINE, M.B.E.

recent interview in one of the London papers with a missionary who had spent fifty-four years in the East-end of London contained the following statement: "Before the Health Insurance Act was passed we had dealt with 250,000 patients at twopence each." Before that date there was no organised general medical system; the workers formed themselves into friendly societies, work clubs, provident dispensaries, medical aid societies, etc., and these bodies contracted with the doctor—not with the chemist—to provide treatment and medicine for their members. The friendly societies in 1911 had a membership of about 6,000,000; this left a large number of workers who, having no club or society to rely upon in time of sickness, had to pay the usual doctor's fee. Many poor people who were ill were unable to pay a private doctor.

In 1911 came the tremendous upheaval of the National Insurance Act. It was launched in a whirlpool of storm and criticism, and for a time the fate of the chemist was in the utmost jeopardy. The original text of the Bill did not even mention chemists. The supply of drugs and medicines was to be undertaken by the friendly societies and by the local health committees which the Bill proposed to set up. Mr. Lloyd George said in the House of Commons in May 1911:—

"In rural districts the doctor is paid something like 2s 6d. per head for the doctoring of friendly societies—average is perhaps 4s. The doctor says he cannot do it at this figure; that is not the opinion of the friendly societies, and I am bound to warn the House they may fight about it.

... The first thing to be done is to separate the drugs from the doctor, because a patient, so long as he gets something which is coloured and thoroughly nasty is perfectly convinced it must be very good medicine. ... The doctor's business should be confined to prescribing, and it is for the chemist to dispense. ... I have no doubt the friendly societies will make as good a bargain with the chemists as they have done with the doctors."

They might have made what was in their eyes a "good bargain," which would have been a bad one for the chemists and equally bad for the insured person. It is quite probable that, at least in the large cities, they would have set up dispensaries of their own to supply medicines. In the columns of *THE CHEMIST AND DRUGGIST* at the time a cartoon appeared of a huge mortar labelled "Friendly Societies," inside was a small squirming figure—the chemist—being pulverised by a pestle held by Mr. Lloyd George. If the Bill as drafted had become the National Insurance Act the chemist, as we know him to-day, would have been ground out of existence. The Pharmaceutical Council, the only body then which could act for chemists, appointed a deputation of the leading men in pharmacy to interview Mr. Lloyd George. This Association may congratulate itself on the fact that one of the members of that deputation who did so much to obtain the nation's dispensing for chemists was one of their own past-presidents, that eminent pharmacist Mr. John Humphrey.

Chemists to-day undoubtedly owe a large part of their present prosperity to the fact that the Chancellor finally agreed to amend the clause relating to the supply of drugs and medicines. It was a momentous change for the pharmacist, and one which has had a far-reaching effect, not only on pharmacists but on the medical profession and on the health of the country. Attempts have been made by various interested parties to amend this section. The Society of Apothecaries asked the Royal Commission on National Health Insurance that the section should be amended so as to allow persons who held the assistant's certificate of their Society to contract for the supply of medicines for panel patients in institutions. The Ministry of Health opposed this request. The Royal Commission reported that it was not desirable in the interests of insured persons to lower the standard of qualification, and recommended that no alteration should be made.

Present Position of the Chemist after Seventeen Years' Contract with the State

Instead of numerous chemists who never dispensed a doctor's prescription, in the year 1929 chemists dispensed 56,199,256 doctors' prescriptions, and received in payment for these prescriptions £1,922,800. The number of insurance prescriptions dispensed in 1929 increased by 8 per cent. as compared with 1928. The total of the chemists' accounts was increased by £121,440. An interesting point in connection with the statistics relating to prescriptions is that the average ingredient price is diminishing, so that out of this £1,922,800 which the chemists received last year more than half of it is profit received for professional services. The total amount paid to chemists in England since the inception of the Act until the end of 1929 is £20,712,800. Under the old system the doctor would have supplied the

medicine. If the original Bill had become law, the bulk of the medicine would probably have come from large dispensaries set up by the friendly societies. In the last ten years the yearly bill has more than doubled. This increase is due partly to the increase in the number of insured persons; there are 14,000,000 in England now—more than one-third of the whole population. The increase is also due to the different methods of prescribing, and perhaps above all to the fact that the insured person has found out that insurance treatment and medicine are worth having.

One advantage of the regular system of payment whereby the insurance chemist can depend upon receiving his cheque from the Insurance Committee every month is that this ready cash may be depended upon. Another undoubted advantage possessed by the National Health insurance scheme is that it is educating the people of the country to go to the chemist for their medicine. A doctor, writing recently in the medical Press on the question of doctors' dispensing, says: "The outstanding merit of the National Insurance System is that the practitioner is no longer a vendor of medicine."

Advertising Value

Advertisers regard an advertisement as a complete success when it actually brings the public over the threshold of the shop and up to the counter. What amount would need to be spent annually in advertising goods to bring 7,000,000 people into the chemists' shops of the country? A benefit which cannot be estimated financially is the unity and friendship which now pervades the pharmaceutical world. Pharmacists meet as business partners and loyal friends instead of as the strangers and competitors of twenty years ago. The Insurance Act has succeeded in blending the warring pharmaceutical elements into a perfect emulsion.

One other thing the Insurance Act has done is to increase the number of pharmacies and decrease the number of drug stores. I venture to say that twenty years ago some millions of the population never entered a chemist's shop; they received their medicine from the doctor and purchased their other needs from the drug store. Now they must go to the chemist for their medicine, and they find that he can also supply their other requirements; so, in the language of to-day, the drug store is by-passed.

Another service which the National Insurance Act has done for pharmacy is to promote the dignity of the craft and raise the general tone of pharmacy by recognising the pharmacists as the only right and proper person to dispense medicines and by giving him his proper professional job, that is, to dispense prescriptions with all the authority of the State behind him. Anyone is at liberty to dispense medicines—other than those containing poisons—for the uninsured population, but only qualified pharmacists may dispense medicines for insured persons. It has been laid down as a cardinal principle of the Insurance Medical Service that in general medicines are to be dispensed by pharmacists, not by doctors.

These are advantages which it will be difficult for anyone to gainsay, but they never seem to be realised by the majority of chemists. Too many of them, not pausing to count their blessings, express their discontent freely in the columns of their own Press, and seldom or never have a good word to say for the national scheme which has built up so much of their present-day prosperity.

The Machinery of Pricing

The duties of a Pricing Office do not come within the scope of our talk to-night, but I should like to say a few words on how the chemist can help himself:—

(1) By carefully looking over his scripts before sending them to be priced and seeing that out-of-pocket expenses, including telephone charges, postage on orders, carriage, etc., have been noted on the scripts on which they are entitled to charge.

(2) By seeing that all scripts on which the doctor has written the word "urgent" are endorsed on the back by the chemist with his signature and the time of dispensing. In these cases double dispensing fees are

allowed, provided the prescriptions have actually been dispensed after the normal hours of business.

(3) By seeing that the date of dispensing is indicated on all prescriptions coming under the Dangerous Drugs Act.

(4) By keeping over his dispensing counter a list of scheduled appliances allowed to be ordered under the National Insurance Acts. It is amazing how many unscheduled appliances chemists continue to supply—such things as stomach tubes, kettles, safety pins, enamelled basins, pads for flat feet, and so on.

The chemist can help the Pricing Office:—

(1) By seeing that all scripts are signed by a doctor on the panel for his area.

(2) By seeing that the scripts as written can be interpreted and priced; without further information a Pricing Office cannot price prescriptions such as "ointment for boils," "green oil," "materials for fomentation large thigh," "dressing cut finger."

(3) By enclosing the invoice for any unusual preparation not included in the ordinary wholesale lists. New preparations always seem to reach the Pricing Office before they are listed, or advertised, and it is sometimes difficult to trace them. In at least two cases lately the manufacturer has told me they are only making experimental quantities. Drugs ordered by their chemical formula name are also a terror to pricers.

(4) By not crediting the Pricing Office with a mysterious power of divination which will enable it to read quantities which are not there.

(5) By refraining from writing explanatory notes on the scripts such as caustic remarks on the Insurance Scheme, or accounting for the dirty condition of the script.

(6) By seeing that full particulars are given in the case of scripts which have not been dispensed as written, such as:—"Ung. hydrarg. nit. 8 oz., $\frac{1}{2}$ oz. night and morning."

(7) By not filing scripts before they come to the Pricing Office by impaling them on a spike just where the prescription is written.

(8) By not impressing a stamp with name and address so as partially to obliterate the prescription.

Sometimes, of course, the writing of the doctor is responsible for different interpretations of the same prescription. Recently I saw a script containing a prescription for flavine in paraffin; the chemist supplied a 2½-in. flannel bandage and 3vj. of liquid paraffin. These irregular and incomplete prescriptions are always a trouble at the Pricing Office, as it is necessary to return them to the chemist, who is sometimes annoyed at what he considers a display of "judicial ignorance."

High Standard of Dispensing

The present Minister of Health says the scheme of National Health Insurance has been an adventure, but one which has been conspicuously successful. I venture to say that part of its success is due to the high standard of accuracy in the dispensing of insurance prescriptions. The report of the Ministry of Health, which has just been published, states in connection with the scheme for testing drugs and appliances:—"The proportion of samples found on analysis to be correct, or nearly correct, was over 95 per cent. It appears, therefore, that there is no falling off in the high standard of dispensing in the insurance medical service." This extract from a Government report is very high praise.

Naturally, I have dwelt on the material advantages of the Act to chemists, but man does not live by bread alone. Surely there is another side from which we should view this great instrument of preventive medicine which has for its object the prevention and cure of sickness, the abolition of disease and pain and the betterment of the health of the people. Are we not all workers in the same cause, trying to help National Health Insurance along? Should we not bring to our work all our knowledge and skill, breadth of vision and sympathy of heart to help us to attain to the ideal of the old Greek physician: "The love of humanity associated with the love of craft"?

Insurance Act Dispensing

Record of Matters concerning Chemists' Interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Devon.—It was reported at a recent meeting of the Devon Insurance Committee that the Medical Benefit Subcommittee had purchased the requisite number of copies of the National Formulary for the first issue to doctors and chemists. The chairman, Mr. P. F. Rowsell, said that the formulary would come into effect as regarded Devon and Exeter on October 1, and for Plymouth, he understood, on January 1. A report of the Finance Subcommittee showed that on July 1 the number of persons entitled to medical benefit in the county of Devon was 149,743, a decrease of 893 as compared with the count at April 1.

Dudley.—At a meeting of the Insurance Committee on September 16 the Pharmaceutical Service Subcommittee reported that one sample was referred to the Subcommittee for inquiry. The Subcommittee had before them the certificate of the committee's analyst and a communication from the firm in the following terms:—"... From the explanation given us it is clear we must accept the certificate of the analysis as correct, as it appears that the sodium sulphate used had effloresced, and has consequently made up stronger than it should have done. We may add our manager is usually a very careful dispenser, and that he made up this mixture personally. . . ." The manager, in evidence, stated he had been manager at the branch shop for about two years, and had personally made up the mixture. He was of the opinion that the excess of 23 per cent. of sodium sulphate, as shown in the analyst's certificate, was due to the sodium sulphate used having effloresced. The Subcommittee recommended that the firm be warned.

East Suffolk.—At the quarterly meeting of the East Suffolk Insurance Committee, held recently, it was reported that the number of prescriptions issued for the second quarter of the year was 28,081, a decline on the corresponding quarter of last year, when the number was 28,554.

Middlesex.—At a meeting of the Pharmaceutical Committee, held on September 24, Mr. A. W. Hall in the chair, the following statistics were presented:—

	No. of prescriptions	Ingredient cost	Dispensing fees
		£ s. d.	£ s. d.
May 1930 ..	172,317	3,610 1 10 (av. 3.6d.)	3,316 4 7 (av. 4.4d.)
June 1930 ..	146,119	2,214 16 3 (av. 3.6d.)	2,645 16 6 (av. 4.4d.)
[July 1930 ..	147,990	2,250 2 6 (av. 3.7d.)	2,670 3 2 (av. 4.3d.)]

Articles disallowed during May, June and July numbered sixty-three, including twenty-one brushes and other articles, such as trusses, drainage tubing, enema syringe, atomisers, eye shields, a sputum bottle, picric acid lint, isinglass felt, a packet of radio-active mud and Roboleine.

Somerset.—At a meeting of the Somerset Insurance Committee held recently, a report was presented by the Pharmaceutical Service Subcommittee on tests of medicines dispensed by chemists. The committee stated that in consequence of deficiencies a director of the company of chemists concerned, with his dispenser, had attended and explained that the mixture had been dispensed from a stock supply of mist. bismuth. The Subcommittee expressed the opinion that sufficient care was not exercised and recommended that the chemists be warned. An amendment to the motion for the adoption of the recommendation proposed that the sum of £1 is. be deducted from the remuneration of the chemists. The amendment was adopted. In another case the committee reported that it had called the attention of a chemist to the importance of his complying with the conditions of service entered into by him. In a third

case £2 2s. was recommended to be withheld from a chemist's remuneration on the ground that he had dispensed a prescription with a 68-per-cent deficiency of cod-liver oil.

SCOTLAND

Drug Accounts Committee

The report on the work of the Drug Accounts Committee (Scotland) covering the year 1929 states that the prescription forms which were priced and scrutinised on behalf of the fifty-four Insurance Committees in Scotland for the year numbered 2,925,662, and this constitutes a record. This is an increase of 269,925 prescription forms over the year 1928, and is no doubt due to the influenza epidemic prevalent throughout Scotland during the months January and February 1929. A contributing factor in the new low average price is probably the simple type of prescribing in connection with the influenza epidemic. The number of accounts in respect of the year 1929, which were prepared by the Central Checking Bureau, for drugs and appliances supplied by panel chemists to insured persons in the twenty-three Burgh areas and the thirty-one County areas totalled 24,046. This number for the year 1929 constitutes a record, and is 50 per cent. greater than for the year 1919. A number of cases of costly treatment are detailed in the report to illustrate the principle that expense by itself is no bar to the supply of proper and sufficient medicine. In the first case an insured person received during five consecutive years 573½ lb. of ointment at a cost of £77 14s. 9d.; in the second case, concerning the supply of medicines including insulin and liver extract, an insured person received, between May 1929 and June 1930, drugs to the value of £77 1s. 4d.; the third case shows the cost incurred in respect of one of the first insured persons to undergo insulin treatment from 1923 until June 1930 as £286 19s. 1d. In the three cases treatment is being continued. The following comparative statement shows the number, value, and average price per prescription for selected years:—

Year	Number of forms	Value	Average price per form	Average cost per form for pricing and scrutinising
		£ s. d.	d.	d.
1915 ..	2,220,219	90,182 10 3	9.74	0.3450
1920 ..	2,100,893	144,467 18 9	16.50	0.4188
1924 ..	2,743,847	161,219 1 7	14.10	0.3230
1925 ..	2,691,162	156,963 17 1	13.99	0.3570
1926 ..	2,760,057	154,959 2 3	13.47	0.3600
1927 ..	2,748,779	151,739 0 9	13.24	0.3623
1928 ..	2,655,737	147,328 5 8	13.31	0.4017
1929 ..	2,925,662	160,424 7 3	13.16	0.3660

The number of forms and the value of insulin are not included in the above totals. The report concludes with comparative statements showing, in respect of the months of May 1922, March 1923 and March 1930, the number of times diamorphine and preparations containing diamorphine, and codeine and preparations containing codeine, were prescribed.

NORTHERN IRELAND

Belfast.—The first meeting of the newly-formed Pharmaceutical Committee for Belfast under the National Health Insurance Act was held on September 30. Mr. H. Todd, an ex-president of the Pharmaceutical Society of Northern Ireland, was elected chairman of the Committee, and Mr. James McDowell, Newtownards Road, secretary. Messrs. S. J. Hudson, S. McLoughlin, and H. P. Crossin were elected to represent the Committee on the Pharmaceutical Service Committee, and Messrs. H. Moore and J. Adams were elected to represent the Committee on the Joint Services Committee.

Japan's Foreign Trade

THE monthly return of the foreign trade of Japan for June 1930, recently issued by the Department of Finance, Tokyo, also gives the complete figures for the corresponding six months (January to June) 1928, 1929 and 1930. The total exports and re-exports of merchandise for the six months ended June 1930 were 732,194,115 yen, against 1,016,952,283 yen for 1929, and 943,304,365 yen for 1928. The total imports and re-imports for six months ended June 30, 1930, amounted to 956,063,842 yen against 1,299,357,124 yen for 1929 and 1,179,430,063 yen for 1928. The grand total of exports and imports, therefore, was 1,688,257,957 yen for the six months ended June 30, 1930, against 2,316,309,407 for 1929 and 2,122,734,428 for 1928. The excess of imports for the six months ended June 30, 1930, was 223,869,727 yen against 282,404,841 yen for 1929, and 236,125,698 yen for 1928. The yield of import duties for the six months ended June 1930 was 63,234,577 yen against 78,255,836 yen, and 78,685,691 yen for the corresponding periods of 1929 and 1928 respectively. The following items showing exports and imports for the first six months of 1930 compared with 1929 and 1928 are of interest to the chemical and drug trades:—

EXPORTS				
Article	1928	1929	1930	
Soya beans 100 kin	23,502	27,977	24,164	
Ground nuts "	4,025	780	681	
Rape and mustard seed "	122	3,897	5,010	
Linseed "	—	594	1	
Ginger, dried "	6,018	12,317	9,219	
Soya koku	11,268	11,147	10,403	
Linseed oil 100 kin	1,322	2,713	3,088	
Coconut oil "	186	203	2,061	
Colza oil "	27,701	34,138	120,654	
Cotton oil "	1,865	2,349	7,057	
Camphor oil "	13,135	12,891	6,039	
Peppermint oil "	2,571	2,136	234,712	
Fish and whale oil "	205,464	123,860	451,667	
Wax, vegetable "	20,466	27,134	22,535	
Soap, toilet dozen	1,248,314	931,269	827,955	
Soap, other kin	302,789	334,218	479,685	
Toilet cream yen	107,787	113,351	106,178	
Perf. water and hair oil .. dozen	252,571	187,260	117,296	
All other toiletries yen	768,469	1,381,728	1,850,031	
Drugs, chemicals, medicines, etc. "	21,883,977	16,531,150	13,394,831	
Ginseng 100 kin	232	366	19,213	
Insect flowers "	50,347	21,417	18,974	
Glue "	10,318	8,474	6,032	
Sulphur "	47,927	24,763	44,827	
Iodine kin	33,307	24,574	16,226	
Acetic acid 100 kin	357	300	168	
Sulphuric acid "	59,140	50,127	39,099	
Nitric acid "	17,133	13,799	10,955	
Arsenic "	17,084	7,639	11,391	
Soda sulphide "	46,935	26,299	22,735	
Potash iodide kin	2,702	14,256	9,229	
Potash chlorate 100 kin	334	—	46	
Calcium carbide "	23,543	29,131	30,944	
Camphor "	17,957	27,615	9,626	
Menthol "	1,814	1,945	182,291	
Menthol cane dozen	112,116	66,806	62,000	
Insect powder 100 kin	5,932	6,249	6,120	
Joss-sticks kin	779,712	729,670	777,430	
Tooth powders and pastes .. yen	429,705	312,339	271,326	
Toilet powders and pastes .. "	148,054	130,272	104,224	
Other perfumery "	180,264	179,910	181,601	
Gauze, wadding and bandages "	323,237	159,677	176,458	
Prepared medicines "	840,034	£14,324	779,175	
Other drugs, chemicals, etc. "	3,187,643	2,459,750	2,570,466	
Coal-tar dyes kin	906,504	322,649	836,626	
Metal powders "	154,420	48,037	47,447	
Lead, red "	958,257	718,778	1,127,402	
Inks "	763,142	643,470	704,164	
Paints "	1,213,652	781,447	858,496	
Hair brushes dozen	31,917	57,411	56,004	
Tooth brushes dozen	171,395	189,752	111,101	
Nail brushes dozen	55,061	79,116	82,852	

IMPORTS				
Article	1928	1929	1930	
Soya beans 100 kin	4,972,735	5,969,393	5,233,311	
Ground nuts "	99,723	118,033	155,199	
Sesame "	198,716	167,517	207,566	
Perilla "	101,018	103,908	253,497	
Rape and mustard seed "	124,978	270,877	481,160	
Linseed "	143,742	144,289	34,547	
Hemp seed "	185,241	210,273	252,022	
Castor seed "	131,790	121,958	98,954	
Cotton seed "	590,387	914,909	812,996	
Tonic foods kin	193,908	208,469	144,883	
Essential oils "	262,565	268,467	302,168	
Turpentine litre	159,751	298,169	94,701	
Castor oil kin	3,712	671	130,945	
Olive oil yen	94,604	114,708	74,519	
Cotton oil kin	363,294	397,761	427,577	
Wood oil "	549,130	495,187	575,147	
Stearin "	240,085	294,714	229,399	
Olein yen	66,836	114,483	72,903	
Vaseline kin	530,347	387,822	330,249	
Paraffin wax (m.p. below 45 degs. C.) "	25,651	17,903	24,121	
Paraffin wax, other "	135,237	111,894	96,142	
Soaps yen	98,341	114,005	61,307	
Oils, fats, waxes, perf. and preps. kin	77,328	82,440	80,210	
Perf. waters "	48,696	50,853	37,403	
Hardened oil 100 kin	10,440	9,679	11,552	
Other oils, fats, waxes, etc. yen	918,661	1,388,034	947,987	
Drugs, chemicals, medicines, etc. :				
Hops kin	661,932	602,835	781,023	
Liquorice 100 kin	13,078	14,940	14,240	
Cinchona kin	287,006	466,497	486,813	
Tanning materials 100 kin	111,917	102,385	91,511	
Tanning ext. "	64,892	63,147	65,583	
Gum acacia "	8,263	6,201	6,392	
Shellac "	11,513	10,453	13,778	
Resin "	124,902	180,280	175,688	
Other gums "	21,140	20,081	19,515	
Glue kin	803,406	1,398,439	757,306	
Gelatin "	83,415	146,597	104,629	
Boric acid 100 kin	8,796	9,699	7,174	
Tartaric acid kin	464,927	137,350	222,409	
Salicylic acid "	243,348	182,234	102,893	
Acetylsalicy. acid "	116,787	99,841	95,078	
Carbolic acid 100 kin	5,570	2,623	495	
Citric acid kin	85,399	124,789	39,743	
Caustic soda, cr. 100 kin	533,250	311,366	412,409	
Soda ash "	759,243	543,025	689,035	
Soda, bicarb. (kin)	65,476	71,255	35,594	
Soda, nitrate, cr. "	596,682	1,308,000	485,623	
Soda cyanide and pot. .. kin	575,794	382,455	624,804	
Soda borate 100 kin	36,256	25,408	34,290	
Pot. chloride, cr. "	261,740	274,686	252,815	
Pot. sulph. cr. "	455,007	746,262	739,448	
Pot. chlorate "	35,142	26,243	22,514	
Pot. bichrom. kin	320,620	166,060	300,783	
Soda bichrom. 100 kin	12,398	9,188	4,248	
Ammon. chlor. "	24,940	21,006	17,927	
Ammon. sulph., cr. "	2,971,887	4,192,485	3,832,358	
Calcium acetate "	71,099	56,534	13,602	
Formalin kin	397,917	400,983	564,162	
Methyl-alcohol 100 kin	12,510	21,813	17,026	
Glycerin "	19,685	8,322	15,738	
Milk sugar kin	221,790	305,634	203,823	
Naphthalin 100 kin	4,894	7,399	31,816	
Coal tar distillates kin	681,354	1,681,207	1,276,964	
Chem. prod. derived from coal tar dist. yen	1,250,084	1,379,060	1,605,679	
Aniline kin	25	67	48	
Other yen	1,250,064	1,378,995	1,087,439	
Antipyrine kin	43,691	37,587	46,040	
Pyramidon "	36,667	34,581	45,830	
Quinine hydro. and sulph. .. 100 gram	38,386	36,855	21,122	
*Morphine hyd. and sulph. gram	—	—	—	
*Cocaine "	—	—	—	
Cocain 100 kin	10,371	21,094	20,331	
Alcoholic med. preps. .. litre	84,541	62,096	70,715	
Aromatic chemicals yen	60,897	58,136	38,185	
Tooth powders and other prep. perfumes "	254,144	203,628	141,443	
Opium kin	8,677	3,112	635	
Other drugs, chems. yen	5,053,365	5,723,154	4,623,819	
Other compounds of drugs, chemicals and medicines yen	1,539,497	1,858,514	1,339,285	
Logwood, ext. 100 kin	7,327	5,403	3,386	
Indigo, artificial kin	786,718	955,941	389,361	
Cobalt oxide "	39,696	53,870	54,337	
Carbon, black 100 kin	18,581	19,643	22,275	
Mercury "	2,599	3,083	2,319	
Surgical instruments yen	194,446	256,062	179,351	
Photographic instruments .. "	382,091	601,924	876,846	

Kin = 1½ lb. Yen, 2s. (nominal). Koku = 39.6 imperial gallons, * No figures published.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garhling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

28 Essex Street, W.C.2, October 9

THE general industrial outlook leaves much to be desired, and the lack of new enterprise would seem to be at least in some measure traceable to the unsettlement in the commodity markets, for which the severe American trade depression has been responsible, probably to a greater extent than generally supposed. Given some improvement in the Transatlantic situation, there is little doubt that this would help to a return of confidence in European trade. As is well understood, the world's markets have been suffering from over-production, but raw materials have now been forced to very low figures, and it seems regrettable that prices for finished products are not being adequately revised as they should in line with raw materials, as this tends to make the ultimate consumer the more reluctant to buy and thus delay, a genuine revival. The tone at Mincing Lane latterly was a little more cheerful with more activity and a fair rally in sugar, while rubber moved much more freely into users' hands. Pepper and cloves have been much more active at higher prices. In crude drugs a quiet trade is passing, with a firmer tendency in a few items. Buchu and orange peel have been in better demand, the latter being firmer. Honey is inclined to be firmer, with more consumptive buying, stocks having been somewhat depleted by the recent fire. Gum acacia is lower for shipment. The only changes in aromatic seeds are a firmer tone in Morocco cummin and millet, Dutch caraway is higher on the spot. Among a number of essential oils, prices are unsteady owing to uncertain requirements and abundant crops. Lemon, bergamot and star anise are easier. Japanese dementholised peppermint is cheaper to arrive, and clove is dearer, in sympathy with the advance in the spice. In the group of pharmaceutical chemicals, business is quite moderate, with keen price-cutting to secure any important business. Bromides are unchanged, with no definite news as to the result of the negotiations taking place on the Continent. Cream of tartar is the turn better, but tartaric acid is weaker. Business in the heavy chemical market is about sustained on the slightly better volume reported lately. Cornish arsenic has recovered from last week's easier feeling. Potassium and sodium chlorates are easier, and English lead products (red and white lead, litharge, etc.) are lower. Among fixed oils, fewer changes are reported. Acid oils and palm oils are steadier. Cotton, rape and linseed are easier, turpentine being lower. In mineral oils, motor benzol is slightly cheaper, as anticipated, but solvent naphthas are unexpectedly firmer.

Higher	Firmer	Easier	Lower
Caraway seed (Dutch)	Balsam tolu	Anise star oil	Benzol
Clove oil	Cream of tartar	Bergamot oil	Eucalyptus oil
Cloves (Zan. & Madag.)	Cumin seed	Cotton oils	Farina (Dutch and Polish)
Male fern ext.	(Morocco)	Lemon oil	Gum acacia
Pepper	Millet seed	Linseed oil	(c.i.f.)
Tonka beans	Naphthas	Menthol	Lead products
(Angos.)	(solvent)	Rape oil	Peppermint oil
	Nux vomica	Tartaric acid	(Jp., c.i.f.)
	Orange peel		Rosemary oil
	Rubber		(Sp.)
	Steadier		Saffron
			Shellac
	Acid oils		Spike oil (Sp.)
	Palm oil		Turpentine

Crude Drugs, etc.

ANTIMONY.—The demand for Chinese regulus is slow and the tone easy, with spot parcels obtainable at around £26 10s. delivered warehouse. C.i.f. for shipment were reduced to about £25. Chinese crude is neglected

and worth about £22 on the spot. English high-grade regulus is £46 to £46 10s., and good ordinary brands are about £38. Chinese white oxide on the spot is worth about £33.

ARACA.—For shipment in 25 or 50-bag lots 35s. per cwt. c.i.f. is quoted. Spot supplies are very limited, holders asking 40s.

BALSAM TOLU has a firmer tendency at 3s. 3d. per lb. c.i.f., and on the spot values range from 3s. 3d. to 3s. 4d.

BUCHU have been selling rather more freely at from 1s. to 1s. 2d per lb. for round as to colour; ovals offer at from 9d to 11d.

CADMIUM.—The trade demand has been dragging on with buyers very reluctant to come forward, evidently fearing that prices may ease further under the larger supply becoming available on this side. Current quotations for fair-sized lots on the spot stand at 2s. 6d. to 2s. 7d. per lb, but business on the Continent is apparently being done at 1d. to 2d. per lb. less.

CALABAR BEANS are quoted at 4d. per lb. c.i.f.

CEVADILLA SEED is quoted in at least one-ton lots at 73s. 6d. per cwt. c.i.f.

CHAMOMILES.—New crop Belgian bold extra white offer at 150s., medium at 137s. 6d., and current quality 127s. 6d.

CLOVES are strong and dearer, Zanzibar having been sold on the spot up to 1s. 3½d. to 1s. 4¼d. per lb. For shipment, the sales comprise September-October at 1s. 1½d. to 1s. 1¾d. c.i.f. Madagascar has been sold at from 1s. 2½d. to 1s. 2¾d. on the spot, sellers now quoting 1s. 4d. per lb.

The landings of Zanzibar in London during the week ended October 4 amounted to 75 bales and the deliveries to 147, leaving a stock of 381, against 609 in 1929 and 4,182 in 1928. From January 1 to October 4 the landings of Zanzibar have been 6,257, against 5,749 in 1929, and the deliveries have been 5,873, against 7,527 in 1929. Of Madagascar the landings for the week ending October 4 were nil and the deliveries 240, leaving a stock of 1,077, against 29 in 1929 and 1,709 in 1928; the landings of Madagascar this year to date have been 4,924, against 848, and the deliveries 3,860, against 3,364.

In the course of the annual report of the Zanzibar Protectorate for 1929, just issued, it is stated that the seasonal crop 1929-30 is exceptionally large, the estimate for the season's harvest being approximately 10 lakhs of frasilas. The figures for the quantity (thousand tons) and value (£000 omitted) of cloves exported for the last five years are as follows:—

	Tons	Value £
1925	10.9	885
1926	7.9	572
1927	12.9	820
1928	7.9	651
1929	8.7	868

The year was marked by a sharp rise in prices, the range being from Rs.14.94 to Rs.33.91 per frasila (35 lb.) duty paid. The bonus paid on young trees amounted to Rs.1,79,794, compared with Rs.1,20,000 in 1928. This bonus was compounded in 1928 and the final outstanding commitments were paid in full during 1929. The question of the best method of ensuring that all cloves should be inspected before export (says the report) had been engaging the attention of the Government for some time past. Hitherto this inspection had taken place on the entry of the cloves into Zanzibar. Legislation had recently been enacted whereby all cloves intended for export pass under the control of the Customs at the place of shipment. It being considered that this was the place at which inspection should take place. The Agricultural Produce Export Decree (No. 11) was enacted to effect the change and, at the same time, to introduce certain improvements in the old Decree which experience had shown to be necessary.

COCOA BUTTER is quoted at from 11½d. to 1s. per lb. for prime English, 1s. 0½d. for C.F.R., and 1s. 0½d. for Van Houten's "A" in not less than one-ton lots.

COCONUT (DESICCATED).—Market is flat and little interest shown. Fine, medium and coarse on the spot is quoted at 22s. 9d. per cwt. For shipment (in minimum lots of 100 cases), the price is 21s. 3d. c.i.f. for October-November shipment.

COD-LIVER OIL shows more activity, and consumers are now beginning to cover their autumn requirements. Agents offer finest new non-freezing steam-refined Norwegian oil at from 102s. 6d. to 105s. per barrel c.i.f.

GINGER.—West African is quiet at 40s. 6d. per cwt. on the spot.

GUARANA.—For prompt shipment from origin 3s. 3d. per lb c.i.f. is quoted.

GUM ACACIA is again cheaper for old and new crop for shipment. Shippers offer old crop natural Kordofan for October shipment at 50s. per cwt. c.i.f., and cleaned at 52s. c.i.f. New crop natural for December-January shipment has been sold at 47s. c.i.f., and natural at 49s. c.i.f. U.K. and/or Continent. The spot price of Kordofan cleaned is unchanged at 60s., and natural sorts is 57s. Talha is 56s. spot and 27s. c.i.f. We deal with the position in an article on p. 462.

HONEY.—The effect of the recent wharf fire is beginning to be felt, and the market is inclined to be firmer, with a fair consumptive inquiry for Jamaica during the last week or so. Current prices are: Jamaica, amber liquid, 32s. 6d. to 34s. 6d.; amber set, 34s. to 36s.; pale set, 36s. to 38s.; whitish set, 40s. to 42s. 6d. One of the large consuming houses has placed an offer for a very fair-sized quantity of other descriptions than Jamaica.

IPERCAGUANHA remains firm, with sales of Matto Grosso at 12s. 6d. per lb.; for shipment from Hamburg, 10s. 6d. c.i.f. is quoted for Cartagena.

JABORANDI LEAVES for prompt shipment from Hamburg are quoted at 3d. per lb. c.i.f., and for shipment from origin at 2½d. per lb. c.i.f.

LYCOPodium—Guaranteed treble-sifted is offered at 1s. 7d. per lb. c.i.f. Prices for new crop are expected to be higher, as it is not up to expectations.

MALE FERN EXT. (24 to 25 per cent. filicin) is dearer at 3s. 6d. per lb. in one-cwt. lots and 3s. 8d. for 14-lb. tins.

MENTHOL has proved somewhat a disappointing market to holders, last week's firmness having quite evaporated by offers for shipment below previous prices, second-hands quoting January-March at 13s. 3d. per lb. c.i.f. Spot is slightly easier, in sympathy, K/S offering at 14s. 9d., in not less than five-case lots.

MERCURY.—The dullness of trade demand is somewhat pronounced for the moment, but there is no quotable price change. The demand is strictly confined to small lots, and there is an ample stock available. Official quotations on the spot stand at £21 13s. 9d. to £22 per bottle net. A certain amount of mercury from uncontrolled sources is still coming on offer, but about the same terms are quoted for it. The f.o.b. quotation of the Combino for shipment remains at £21 15s. net per bottle for at least 25 bottles, but concessions are made for large quantities.

NUX VOMICA is slightly firmer, Madras to come forward offering at 13s. per cwt. c.i.f., and for Cochín 13s. 9d. to 14s. c.i.f. is quoted. Spot supplies are extremely small.

ORANGE PEEL has been in rather more demand and prices are firmer, usual so-called machine-cut strip offering at from 6d. to 8d. per lb. as to quality. A portion of the London stock was destroyed in the recent wharf fire.

PEPPER is dearer. Lampong has been sold up to 7½d. per lb. on the spot. For shipment, August-October has been sold at 5½d. to 6½d., and October-December at 5½d. to 6½d. c.i.f. Tellicherry for November-December shipment is quoted at 85s. c.i.f., and Alleppy at 83s. c.i.f. White Muntok has been sold at from 10½d. to 1s. per lb. on the spot. To arrive, sales include August-October shipment at 8½d. to 10½d., and October-December at 8½d. to 9½d. c.i.f.

PIBMENTO remains quiet at 7½d. per lb. on the spot, and for November-December shipment 55s. per cwt. c.i.f. is quoted.

RUBBER has recovered ¼d. per lb. since our last. At one period spot touched 4½d. per lb., but reacted to 3½d. at the close. During the past few days there has been more interest shown all round, and quite a fair amount of buying has taken place. A curious position has resulted from the present low prices, and we find that some of the "off" grades, which generally stand at ½d. to 1d. discount, are at present the same price as the first quality standard rubber. Last week arrivals totalled 1,865 tons, whilst deliveries were substantial at 3,457 tons, showing a welcome decrease of 1,592 tons in the stocks. The London stock now stands at 81,544 tons, against 43,478 tons at the corresponding period last year. This decrease was somewhat offset by an increase of 1,520 tons in the Liverpool stock, which at present stand at 36,378 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and October, 3½d.; November-December, 4d.; January-March, 4½d.; April-June, 4½d. per lb.

SAFFRON is cheaper this week, with guaranteed pure and genuine Valencia offering at from 30s. 6d. to 35s. 6d. per lb. as to quality.

SARSAPARILLA remains neglected, with good fibrous grey Jamaica offering at 1s. 6d., native red Jamaica at 1s. 6d., mixed colours at 1s. 5d., and pale at 1s. 4d. per lb.

SEEDS.—**ANISE.**—Spanish is 52s. 6d., Bulgarian 40s., and Russian 31s. per cwt. on the spot. **FENNEL.**—Bulgarian on the spot is offered at 40s. **CANARY.**—Mazagan on the spot is 25s. 6d., and for shipment 24s. 9d. c.i.f. is the last quotation received. Morocco on spot is 25s., and for shipment the price is now 21s. c.i.f. Turkish (2 per cent.) for shipment is quoted at 19s. 6d. c.i.f. **MILLET.**—Morocco on the spot is now 8s. 6d. for five to ten-ton lots. **CUMIN.**—Malta on spot is 65s. There is not much Morocco on spot to be had and sellers are now asking 55s. to 57s. 6d. For shipment,

the price is 52s. 6d. c.i.f. **FENUGREEK.**—Old crop on spot is selling at 20s.; no old crop offered for shipment; new crop on spot is 17s. 6d. per cwt. **CORIANDER.**—Old crop is worth 9s. 9d., and the new crop 9s. 6d.; 9s. 6d. c.i.f. is also quoted for shipment. **CARAWAY.**—Dutch on spot is dearer, sellers now asking 32s. 6d. to 33s. ex store, London. **MUSTARD.**—English is 25s. to 32s. per cwt. according to quality. **DILL** (11 per cent.) on spot is unchanged at 22s. **N'YOUTI** is now worth 11s. on the spot.

SENEGA is unchanged, with spot holders asking from 2s. 11d. to 3s. 2d. per lb. There are still no first hand offers of new crop from the source.

SHELLAC is dull and easier, usual standard TN orange quality offering at 32s. 6d. per cwt.; fine orange is 107s. to 200s., pure button 115s., and AC cakey 100s. per cwt. To arrive, sales of TN for October-November and November-December shipment have been made at 70s. c.i.f. sales for delivery include October at 77s., December at 79s. to 80s. to 74s., and March at 81s. to 82s. 6d. to 73s. 6d.

SPERMACETI.—American refined is quoted at 9d. per lb. c.i.f.

TARAXACUM.—Foreign is offered at 57s. 6d. per cwt. c.i.f. for September-November shipment.

TONKA BEANS.—We understand that the bulk of the first-hand stock of Angosturas on the London market were either destroyed or damaged in the recent wharf fire, and the market is very bare of supplies of this description. The nominal value of good frosted is from 6s. 9d. to 7s. per lb. Paras are unchanged.

TRAGACANTH.—Prices of druggists' quality still continue firm and the limited supplies are due to the fact that new crop arrivals have not yet taken place. Fine white ribbon is £30 to £31 per cwt.; ordinary No. 1, £23 to £29; fair seconds, £23 to £27; thirds, £20 to £22; mixed bold thin leaf, £15 to £19; yellow to pale Persian thick leaf, £10 to £14; pinky Persian, £7 to £9; hoggy sorts, 65s. to 120s. according to quality.

Essential Oils

MANY of the essential oils appear to be unsteady and seem to be dominated by the financial position; requirements to-day are so uncertain, and crops appear to be so abundant, hence the nervousness exhibited in so many quarters. Japanese dementholised peppermint oil, always so unstable, seems to live up to its reputation. As regards lemon oil, owing partly to a bad consuming season, there is apprehension about the new crop and what is to be done with the "carry-over."

ANISE (STAR).—"Red Ship" brand and B.P., in spite of small spot stocks, is somewhat easier, cases of leads being offered at 4s. 7½d. per lb. and cases of tins at 4s. 6d.; to arrive, a parcel of leads afloat is offered at 3s. 10½d. c.i.f., and October shipment leads in cases is quoted at 3s. 9d. and tins in cases at 3s. 7½d. per lb., both c.i.f.

BERGAMOT is easier: spot is offered at 10s. to 10s. 3d., and c.i.f. at from 9s. 9d. to 10s. per lb.

CARAWAY.—Dutch double distilled ranges from 7s. 3d. to 7s. 6d. per lb. according to quantity.

CASSIA (80 to 85 per cent.) is hardly inquired for at present and the demand appears to have fallen off considerably of late: values on the spot 3s. 7d. to 3s. 8d., and 3s. 1½d. c.i.f. to arrive.

CLOVE.—The fruit during the past few weeks has advanced about 30 per cent., and in sympathy, although not to the full extent, the oil is dearer. English B.P. is offered at from 7s. to 7s. 9d., the cheaper price being quoted by dealers who hold cheap contracts.

EUCALYPTUS is in good demand, but values are very much down, owing to the Spanish rate of exchange being so low, and Spanish oil has had the effect, coupled with the financial position in Australia, in bringing prices down. Spanish oil is quoted at 1s. 4d. to 1s. 6d. per lb. according to percentage, and Australian at from 1s. 5d. to 1s. 7½d. for round quantities; to come forward, both varieties are offered at less, also the forward position is cash against documents.

GRAPE FRUIT.—Grapo fruit oil is produced in small quantities only in Dominica and no effort to increase the production is contemplated in the near future. There were no exports in 1929. The fruit is nearly all sold in the neighbouring islands and a small quantity is shipped to England and Canada.

LEMON is easier. Machine-made is quoted on the spot at from 3s. 4½d. to 3s. 6d., and c.i.f. at 3s. 3d. to 3s. 4½d. per lb. Hand-pressed is offered on the spot at 3s. 10½d. to 4s., and c.i.f. at from 3s. 9d. to 3s. 10½d. per lb.

LIME.—During the year 1929 Grenada exported 903 Imp. gallons of lime oil, valued at \$62,685. Of this amount, 532 Imp. gallons, valued at \$30,821, were shipped to the United States, and 371 Imp. gallons, valued at \$21,864, were exported to the United Kingdom. The total exportation of lime oil during 1929 amounted to 549 Imp. gallons, valued at \$6,053, showing, therefore, a considerable increase for 1929.

PEPPERMINT.—American Wayne County, after being firmer, has relapsed into indifference. To come forward, it is offered in drums at 9s. per lb. and in tins at 9s. 3d. c.i.f.; on the spot, 10s. is asked for tins. H.G.H. is scarce on the spot; business is reported at 15s.; to come forward, this price could be shaded by probably 1s. per lb. Japanese dementholised, under the influence of lower January-March offers, is quiet and lower on the spot at 4s. 7½d. to 4s. 9d. for K/S, and a little less for outside brands. January-March shipment is quoted at 4s. c.i.f.

ROSEMARY.—Spanish is cheaper, offering at 2s. per lb., and French is 4s. 2d.

SPIKE LAVENDER.—Spanish is cheaper, offering at 2s. 5d., and French is about 4s. 2d. per lb.

The following arrivals have taken place from the countries indicated during the period September 24 to September 30 (inclusive): Anise (Ch.) 2 pkg., (H.-K.) 40 pkg.; bergamot (It.) 20 cs.; cassia (H.-K.) 46 cs.; citronella (Jav.) 12 dm., (Ger.) 2 cs., (Cey.) 15 dm. 4 cs.; eucalyptus (Sp.) 60 cs.; geranium (Fr.) 5 dm., (Ken.) 5 dm.; jasmine (Fr.) 1 cs.; lavender (Fr.) 2 cs.; lemon (U.S.) 8 dm.; lemon-grass (Br. Ind.) 2 cs.; lime (o. B.W.I.) 1 cs.; orange (Jam.) 5 cs.; palmarosa (Noth.) 2 cs.; pennyroyal (Sp.) 1 dm.; peppermint (U.S.) 6 dm. 20 cs.; rose (Fr.) 2 cs.; ylang-ylang (Mad.) 3 cs.; undescribed (Fr.) 1 cs., (Sp.) 10 dm. 14 cs., (U.S.) 4 cs.

Pharmaceutical Chemicals, etc.

A VERY moderate week of business is reported with prices as a whole maintained on quotation, while price cutting to secure important business continues in most directions. Citric acid is unchanged, while cream of tartar is the turn better. Tartaric acid is weaker.

ACETANILIDE (B.P.) remains quiet with spot values unaltered at 1s. 4½d. to 1s. 6d. per lb., as to quantity.

ASPIRIN.—Some offers slightly under Convention rates are still on the market: business has been slow of late; home trade, 2s. 9d. to 2s. 11d. per lb., as to quantity; export to Colonies and British Possessions, ten cwt., 2s. 8d. up to 2s. 9½d. per lb. for small lots; export to other destinations, ½d. to ¾d. per lb. more; home and Continental prices are competitive.

BARBITONE is about steady although the market is dull: spot, 7s. to 7s. 4d. per lb., as to quantity.

BENZALDEHYDE remains dull with dealers' offering spot at about 2s. per lb. for quantities in carboys.

BENZOIC ACID (B.P.) is unchanged with quantities ex works at about 1s. 11d.; spot parcels, about 2s. per lb. ex store.

BROMIDES.—Quoted prices are about the same as last week, while business seems to have been poor. Negotiations to control this market, through bromine, are continuing, but there is no definite news as yet; dealers quote ammonium, 1s. 8½d. to 1s. 9d.; potassium, B.P. crystals, 1s. 5d.; granular, 1s. 4½d. to 1s. 5d.; sodium, B.P., 1s. 7½d. to 1s. 8d. per lb. for good-sized quantities; slightly higher prices for small parcels; makers' and dealers' prices are competitive.

CALCIUM LACTATE is steady and business is fair: quoted from 1s. 1½d. to 1s. 3d. per lb., as to quantity.

CHLORAL HYDRATE is a good market with home makers commanding the market at 2s. 11½d. per lb. for duty-paid crystals in boxes and 3s. 0½d. in jars; smaller lots up to 3s. 1½d. per lb.; foreign material, on spot, 3s. 3d. per lb.

CITRIC ACID (B.P. crystals).—There is little of interest to report here: while business has been small, spot price for foreign is holding fairly steady in the region of 1s. 6d. per lb., less 5 per cent., for good sized quantities. English makers offer at 1s. 6d. per lb. less 5 per cent.

CREAM OF TARTAR shows a slight recovery in price on spot with foreign 99 to 100 per cent. powder quoted at 88s. per cwt., less 2½ per cent.; there is a firmer undertone, and business is moving fairly well. English makers quote 99 to 100 per cent. at 89s. per cwt. less 2½ per cent. discount.

CREOSOTE (B.P.) is unchanged on a dull market: quantities at 1s. 8d. up to 1s. 9d. per lb., for small lots.

CREOSOTE CARBONATE is quoted by dealers on spot at 5s. 9d. to 6s. per lb., with very little business moving.

GUAIACOL CARBONATE has met with very little call: spot is quoted at about 4s. 4d. to 4s. 8d. per lb., as to quantity.

HEXAMINE.—The limited business moving is being done at very keen prices: spot quotations are from 1s. 10½d. to 1s. 11½d. per lb., as to quantity.

HYDROQUININE has been a much slower market of late, but prices are steady at 3s. 7½d. to 4s. 5d. per lb., as to quantity.

LACTIC ACID (B.P.) is a fairly good market, and prices are now about steady at 1s. 11d. to 2s. 1d. per lb., as to quantity and packing.

METHYL SALICYLATE (B.P.) is unchanged; with makers and dealers doing fair business at about 1s. 3d. to 1s. 5d. per lb., as to quantity.

METHYL SULPHONAL remains slow of sale, with spot offers at about 12s. 7d. to 13s. 10d. per lb.; the market is easy at these rates.

MILK-SUGAR.—Finest Dutch is quoted at from 45s. to 46s. per cwt. according to quantity, being cheaper.

PARAFORMALDEHYDE continues in fair demand, with keen prices quoted: 100 per cent. powder, in large quantities, about 1s. 6½d. up to 1s. 7d. per lb. for small lots.

PARALDEHYDE is steady on a slow market at 1s. 1d. to 1s. 3d. per lb. as to quantity and packing.

PHENACETIN.—The market is still disturbed with cheap offers; controlled prices are unchanged at 3s. 8d. to 3s. 10½d. per lb. for crystals and 1½d. per lb. more for powder.

PHENAZONE continues to be quoted at Convention prices, but these are being discounted in some quarters: quoted from 6s. 11d. to 7s. 3½d. per lb. for crystals, with powder 1½d. per lb. more.

PHENOLPHTHALEIN is unchanged on a quiet market at 5s. 11d. to 6s. 1½d. per lb. as to quantity.

RESORCIN is not meeting with much business, but the market is about steady at 2s. 11d. to 3s. 2d. per lb. as to quantity.

SALICYLIC ACID (B.P.) is very steady at home makers' prices of 1s. 5d. to 1s. 8d. per lb. as to quantity.

SULPHONAL is meeting with only a small demand, but prices are holding in the region of 10s. 1d. to 11s. 2d. per lb. as to quantity.

TANNIC ACID (B.P. *levis*) is unchanged on a steady market at about 2s. 8d. per lb. for fair quantities.

TARTARIC ACID (B.P. crystals).—The market quotation, except for the smaller business of a cwt. or two, is nominal at about 11d. to 11½d. per lb., less 5 per cent. for foreign, on spot; business of any size is a matter of negotiation and would be at a lower rate. The market is weak and tends to move to lower levels. English makers quote 1s. per lb. less 5 per cent.

THYMOL is unchanged, with synthetic fine white quoted from about 7s. 3d. to 7s. 6d. per lb. as to quantity; business has been slight.

VANILLIN.—English make, guaranteed 100 per cent. clove oil, is holding steady at 14s. per lb. in cwt. lots, and less for quantity; ex guaiacol material is offering at about 12s. 3d. per lb. in cwt. lots.

Industrial Chemicals, etc.

London, October 8.

ONE or two changes are recorded. Cornish arsenic is again dearer on a firm market. Chlorates of potash and soda are easier. Business is about sustained on the slightly better volume recently reported.

ACETIC ACID continues steady on a slow market: 80 per cent. technical, £36 5s.; 80 per cent. pure, £37 5s. per ton, in barrels; glacial, pharmaceutical, 99-100 per cent., £58, in glass demijohns; glacial, in barrels, £47 per ton, carriage paid in U.K.

ACETONE is moving in limited quantities; B.G.S., £71 10s. to £80 per ton, in drums, as to quantity, carriage paid in U.K.

AMMONIUM CHLORIDE continues in fair demand, with dealers' prices holding steady; grey galvanising, £21 7s. 6d. per ton, in casks, ex store; slightly less for contracts.

AMMONIUM SULPHATE.—The prices fixed between now and the end of next June in six-ton lots, gross weights, in original bags, carriage paid to any railway station in Great Britain, are as follows: 1930, October £9 1s., November £9 3s., December £9 5s.; 1931, January £9 8s., February-June £9 10s. per ton. The prices charged are those corresponding to the month when delivery actually takes place. Smaller lots are selling at the six-ton prices, plus the following surcharges: four tons and over, but less than

six tons, 1s.; two tons and over, but less than four tons, 5s.; one ton and over, but less than two tons, 10s.; two cwt. and over, but less than one ton, 20s.

ARSENIC.—After the weakness reported last week, this market has again become fairly firm at about £16 17s. 6d. per ton, f.o.b. mines for Cornish white powdered; supplies are very limited.

COPPER SULPHATE is dull and easy in sympathy with the metal. Associated British makers quote £21 10s. per ton f.o.b. less 5 per cent. for casks, and this figure might possibly be shaded.

FORMALDEHYDE is meeting with occasional business for which there is keen competition: 40 per cent. by volume, about £31 per ton, in casks, ex store; slightly less for large contracts.

ISOPROPYL ALCOHOL is quoted at about 10s. 6d. to 11s. 6d. per gallon, in drums, carriage paid, for the best quality; lower grades at cheaper prices.

LEAD PRODUCTS.—With the price of metal steadily dropping to new low records not seen since 1913, it is obvious that the trade demand for manufactured products has been held up for the time being. This week official quotations for lead oxides and white lead have been revised to a lower level, but business is still very slow. English red lead and litharge in five- to 20-ton lots are down £1 at £31 for the home trade. White lead in oil was reduced £2 per ton, this being partly due to the slump in linseed oil, and the current quotation delivered U.K. is at £49, while dry white lead has been reduced £1 to £41 per ton, less 5 per cent. This is the basis price with reductions made according to quantity.

LITHOPONE is unchanged with dealers doing a fair business: 30 per cent. Continental red seal, £19 10s. per ton, in casks, ex store; slightly less for contracts.

OXALIC ACID is steady, but the call is very poor indeed; quantities, £31 10s. per ton, ex wharf; spot lots, 32s. per cwt., ex store.

POTASH CAUSTIC continues at Convention rates with business slow: 88-92 per cent. solid, £29 10s. to £34 10s. per ton, in drums, ex store; 30s. per ton less c.i.f. in all cases.

POTASSIUM CARBONATE is steady and business is fair: dealers quote 90-92 per cent., £23 10s.; 96-98 per cent., £25 10s. per ton, in casks, ex store; less for contracts.

POTASSIUM CHLORATE is easy on a neglected market: quantities at about £25 7s. 6d. per ton; small lots, about 3d.

POTASSIUM PERMANGANATE remains quiet with dealers' prices steady from 4½d. to 5d. per lb. for quantities in two-cwt. drums, ex store.

SAL AMMONIAC is a fairly good market, and prices are well held; dealers quote dog-tooth crystals, £32; medium, £28; fine white crystals, £17 5s. per ton, in casks, ex store; slightly less for contracts.

SODIUM ACETATE is now about steady on spot by dealers at £19 per ton, in casks, ex store.

SODIUM CHLORATE is easier again with quantities down to £23 12s. 6d. per ton, ex wharf: spot parcels about 3d.

SODIUM HYPOSULPHITE is unchanged on a dull market: dealers quote pea crystals, in 1-cwt. kegs, £15 per ton; commercial quality, £9 5s. per ton, in casks, ex store; makers' price for pure crystals to home consumers on contract, £15 per ton, carriage paid to buyer's station.

SODIUM PRUSSIAN is unchanged and the demand is poor: dealers quote quantities at 4½d. to 5d. per lb.; smaller lots up to 5½d. per lb., ex store.

SULPHUR.—There is a fair demand for American crude at the "pegged" price of £5 12s. 6d. to £5 17s. 6d. per ton. Sicilian flowers are £11 5s., refined ground £10, and roll £8 15s., all c.i.f. to arrive.

COAL TAR PRODUCTS, ETC.—Conditions remain quiet, the active demand for cresylic acid and, to some extent, carbolic acid crystals, having died down, but these markets are holding steady. There is no change of importance to record in other products. **ANILINE OIL** and **ANILINE SALT** are unchanged. **CARBOLIC ACID** crystals are unchanged with business moderate: five-ton lots, 6½d. to 6¾d.; 25-50-ton lots, 6¼d. per lb., carriage paid, or f.o.b. in drums with over-casks. Crude carbolic 60's continue to be quoted down to 1s. 4½d. to 2s. per gallon, naked at works. **CREOSOTE OIL** for shipment continues quiet at 4½d. to 4¾d. per gallon, f.o.b. in bulk quantities: home trade continues in the region of 4d. to 4½d. per gallon, at works. **CRESYLIC ACID** is in very fair demand with the market steady: dark 95 per cent., 1s. 5d. to 1s. 6d.; pale, 97-99 per cent., 1s. 11d.; refined, from 2s. 6d. per gallon; American duty free quality, 1s. 8d. to 1s. 9d. per gallon, f.o.b. naked.

NAPHTHALENE is unsteady and quiet with flakes and balls at £14 to £14 10s. per ton, ex wharf. **METHYL ALCOHOL** continues in fair demand with prices unchanged: ton lots, about £42 in drums, ex store; lower prices for large quantities. **PYRIDINE** is unchanged at from 3s. 6d. to 4s. per gallon, f.o.b. **TOLUOL** is quiet and unchanged: commercial 90's, 1s. 10d.; pure, about 2s. 2d. per gallon, ex works. **XYLOL** is unchanged with demand quiet: commercial, 1s. 10d.; pure, about 2s. 1d. per gallon, ex works. **PITCH** continues flat with little inquiry for next season: quoted at the nominal figure of 47s. 6d. per ton, f.o.b.

Fixed Oils, etc.

FOLLOWING upon the reductions recorded last week in nearly all products in this section, there is but little change to report this week. Palm oils are steadier at slightly improved rates. Linseed oil is easier and irregular, while American turpentine shows a further fall. **ACID OILS** remain dull, but prices quoted are steadier: coconut and/or palm kernel, 2½s.; groundnut, 23s.; soya, 19s. spot. **CASTOR** is very quiet and unchanged: pharmaceutical, 44s.; first pressings, 40s.; second pressings, 37s. per cwt., in barrels, on the spot in not less than one-ton lots. **COCONUT**—Business remains slow, with prices unchanged: deodorised, spot, 36s. 9d.; Ceylon, 25s. 3d. c.i.f. **COTTON** has been dull and values are again easier: deodorised, 33s. 6d.; common edible, 31s. 6d.; soapmaking, 30s.; crude, 27s. spot. **GROUNDNUT** is unchanged on a dull market: deodorised, spot, 36s.; crude Oriental, 31s. 6d. c.i.f. **PALM KERNEL** remains quiet, with values about steady: deodorised, 36s.; crude, 27s. 3d. spot. **PALM** is steadier and prices for all grades show a slight recovery; business has been a little better: Lagos, 21s. 6d.; softs, 21s. 3d.; mediums, 21s.; hards, 21s.; bleached, 24s. 6d. spot. **RAPE** is slightly easier on a slow market: refined, 36s.; crude, 34s. 6d. spot. **SOYA** is irregular and dull: deodorised, 33s. 6d.; crude, 27s. 6d. spot. **LINSEED** (raw, naked).—Values for most positions show a slight depreciation and the market is now irregular: on spot, 23s.; October, 25s. 1½d.; November-December, 24s. 3d.; January-April, 23s. 6d.; May-August, 23s. 4½d. Boiled oil, on spot, 32s. **TURPENTINE.**—Prices are again lower, although the market is showing some resistance notwithstanding large American receipts and larger stocks. Spot delivery is 34s. 6d., November-December 34s. 9d., and January-April 36s. 6d. Last week's deliveries were considerably larger at 2,151 barrels, making a total since January 1 of 76,607 barrels. This compares with 76,657 barrels for the same period last year. Stocks were 36,247 barrels, which, with the quantity in course of landing, makes the total London visible supply 39,379 barrels, against 32,423 barrels a year before. **RESIN.**—Prices were adjusted to a somewhat lower level, which tended to encourage the demand, and this, combined with better general conditions, eventually resulted in a firmer tone, despite the heavy stocks. C.i.f. terms were as follows: American B/D 11s. 1½d., E 11s. 4d., F/K 11s. 6½d., M/N 11s. 9½d. to 12s. 6d., W/G 14s. 10½d., and W/W 16s. 5½d. French was slow, with W/G standing at 12s. 4½d. and W/W 12s. 10½d. c.i.f. to arrive. **WOOD.**—Hankow in barrels on spot is quoted at about 44s.

LUBRICATING, MINERAL, BURNING OILS, ETC.—The expected slight reduction in price of motor benzol is recorded this week. Solvent naphthas, however, are firmer. Lubricating oils remain flat and easy as quoted. Other products are about unchanged. **BENZOL.**—The market, as was expected, has eased a point or two and, at the figures now quoted, seems to be fairly steady: standard motor 90's, country, 1s. 4½d.; London, 1s. 5½d. per gallon, ex works, in tank wagons. **PARAFFIN OILS** are unchanged at the reduced prices recorded last week. **PARAFFIN WAX** and **SCALE** continue unsteady and in slow demand: wax, 1½d. to 4¾d. per lb. according to melting point, in bags; scale for shipment is offered at about £12 5s. per ton c.i.f. U.K. **WHITE OILS** continue in slow demand, with prices unchanged: Special No. 1, £24 5s.; No. 1, £23 5s.; No. 3 half-white, £20; No. 4 half-white, £18 per ton, drums and barrels free, ex wharf. **SOLVENT NAPHTHAS.**—These products have taken an unexpected turn and the market is firmer: 90 to 160, 1s. 2d. to 1s. 2½d.; heavy 90 to 190, 1s. to 1s. 0½d. per gallon naked at works. **PETROLEUM JELLIES** continue quiet and unchanged: white to snow-white, £36 10s. to £46 10s.; amber and yellow, £18 5s. to £22; dark stiff green, £11 per ton, barrels free, ex wharf. **LUBRICATING OILS** continue unsteady with the demand slow and prices easy as quoted: spot, pales, £9 12s. 6d. to £21; redds, £11 to £21; dark cylinders, £11 5s. to £25; filtered cylinders, £19 2s. 6d. to £29 per ton, less 2½ per cent.

The Mark Lane Corn Exchange harvest festival service was held at All Hallows Barking by the Tower, on October 8, when a number of Mincing Lane people were among the worshippers.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Irish Pharmaceutical Society's Council Election

SIR,—By your courtesy I desire to convey my gratitude to the members who responded to my request to place Mr. T. J. Smith at the top of the results.—Truly yours,

FRANK FITZPATRICK,

President, Pharmaceutical Society of Ireland.
Dublin.

SIR,—I desire to thank all those members who voted for me at the above election. I assure them the honour is greatly appreciated, and that I will endeavour to be worthy of their confidence.—Yours faithfully,

DAVID WARWICK.

Dublin.

SIR,—May I avail of the courtesy of your columns to offer my sincere thanks to the members of the Pharmaceutical Society of Ireland, who, by their votes, placed me at the top of the poll in the recent Council election?—Yours truly,

Dublin.

T. J. SMITH, M.P.S.I.

Shop Hours and the Will to Work

SIR,—The letter of Mr. John J. Bryant (*C. & D.*, September 27, p. 415) makes one wonder if he has ever had any experience of working in a retail shop. In the bad old days, as he terms them, before these hours came into force, my regular working day started at 8 a.m. and ended at 10 p.m., midnight on Saturday, and 9 a.m. to 11 p.m. on alternate Sundays. Does Mr. Bryant put in these hours at his work? He asks, "Why should you demand the man up the street to close just because you wish to?" and answers "Greediness"; one might ask alternatively, "Why should you compel the man up the street to keep open, just because you wish to?" the reply is obvious, "Greediness, because you are trying to steal his customers by your action, and he is compelled to meet it." Take away the restrictions and within a week all the shops would again be open till ten or eleven every night, as happens now in Christmas week. Mr. Bryant's remedy for this is to have inspectors to see that the assistants are not employed longer than eight hours at a stretch, and so provide work for more employees. He cannot really be serious in this argument. He must know that the ordinary retail shop cannot afford to have relays of staff to cover the extra time, and if he expects that the proprietors would take the extra duties themselves, how would he arrange for the many shops which are under managers, who would be entitled to the eight-hour day? Even the multiple stores would hardly pay two managers for every shop. Then he says that by adopting the present closing hour we have played into the hands of the big stores. Well, if there were no closing hours these large concerns would be far better able to run a duplicate staff than the small trader, and they would, of course, make the most of it. They might attract suburban residents and workers who would be enabled to have an evening in town and look round the shops. The individual proprietor of a small business would be quite unable to meet such a competition, and would be more likely to be crushed out of existence than before. Mr. Bryant assumes that the small proprietors wish for a return to the unrestricted hours; this assumption is not generally correct, for in many towns where the question of hours has been raised there has been a majority for earlier closing. Assistants are not the only workers who are in need of recreation.

Faithfully yours,

BELATED (6/10).

Insurance Dispensing

SIR,—From your reports of Insurance Act dispensing (*C. & D.*, September 27, p. 408) it appears that at Blackburn the question was raised again of the capacity of the chip box. As long as any of us in business can remember the universal practice when dispensing ointments has been to fill the 1-, 2-, or 4-oz. box as required and dispense it as such; but with the institution of Insurance dispensing, like so many other established customs, this has had to be discontinued; now that we are paid cost price at the "pound weight" we are expected to pack 480 gr. into the 1-oz. box, and I thought that this was generally accepted. In Shropshire the Insurance Committee had a grievance because the Ministry of Health had decided not to accept their recommendation that a chemist should be fined for an alleged deficiency in dispensing. There seems to be a strange lack of uniformity in regard to this procedure of punishing the panel chemist.—Yours truly,

INSREP (7/10).

Gift Schemes

SIR,—There are one or two points with regard to the possibility of retaliation by chemists in the present development of gift schemes which are worthy of consideration. The lines sold by chemists who have adopted these methods are not confined to chemists, but may be sold, and are sold, by other traders; and, so far as I know, the same schemes and terms are offered to them as to chemists, so that in the event of any concerted refusal by chemists to be made the agents of free gifts it would be necessary to secure the co-operation of other trades, or it would only mean the diverting of yet more of our regular business to other shops. And it would also be necessary to include the assistance of the wholesale sundries houses, as in some of these schemes the gifts have been distributed by them with daily orders. As this gift scheme idea goes on it becomes infectious, one manufacturer catching it after another. How long will it be before it invades the retail trade?

Yours, etc.,

DONATUR (6/10).

"The Paradise of Quacks"

SIR,—Quacks and quackery are rightly considered discreditable. Though it would be difficult in practice to draw any exact line between quackery and legitimate selling, I cannot help feeling that pharmacy lays itself open to the charge of fostering quackery both directly and indirectly. The latter, unavoidably, by selling the loudly advertised nostrums of the day, many of which we know are unworthy, and directly by the sale of many of our own preparations. When we stamp them and claim a proprietary right we cannot expect the public to distinguish them from the general run of patents. I suggest that the new labelling requirements provide us with an opportunity to raise pharmacy in the esteem of the public and medical profession, by dissociating ourselves entirely from "patent" medicines and all suggestions of quackery—giving the formula on every preparation we pack ourselves. . . . I think the public have more confidence where the formula is given.

Yours, etc.,

ALF. HORNBY.

St. Leonards-on-Sea.

Masticogna Adulteration of Liquorice

SIR,—Referring to the letter on this subject which appeared in your issue of August 30 (p. 301), I should like to correct the erroneous impression which I feel sure must have been raised in the mind of your readers by the wording of that letter, and would point out that the words "Catania" and "Sicily" are not synonymous. I would further bring to notice that in Messina, Sicily, there exists a well-equipped factory for the production of liquorice of a genuine, pure, first-class Calabrian quality.—Faithfully yours,

SANTI FRANCO.

Messina.

Legal Queries

W. P. (12/7).—In order to comply with the recent ruling of the Board of Customs and Excise regarding the sale unstamped of "known, admitted and approved" remedies (*C. & D.*, March 8, p. 300), the complete formula, including quantities, must be printed on the label itself and also on the outside wrapper, if any, together with the words "no proprietary rights are claimed in the preparation of this medicine."

E. H. S. (12/9).—Since the preparation contains, in addition to other ingredients, a certain amount of codeine, it, therefore, comes within Part II of the Poisons Schedule. In order to comply with the provisions of the Labelling of Poisons Order, 1924, the label on the container must bear an indication of the amount of codeine contained in each tablet, as well as the total number of tablets in the container.

BM/EVAE (7/810).—If you commenced your employment in February 1929 you are liable to income tax for the year 1929-1930, provided there is any income remaining after deduction of one-sixth of the same, personal allowance £135, and a further £90 if you are married. The first £225 of taxable income is chargeable to tax at half the standard rate. Although no notice of assessment was sent to you, you are not absolved from liability. It is suggested that you write to the Local Assessor for a form of Return of Income, and at the same time ask him to inform you how the amount now demanded is computed. The income tax year commences on April 6 in one year and ends on April 5 in the next. Tax is payable on January 1 and July 1 of each year.

D. R. R. (30/8) states that in his town a chemist's shop is being kept open day and night. Business is carried on after the closing hour in exactly the same way as during the day; the shop is kept lighted; the blinds are up, and the door is open. Is this contrary to provisions of the Shops Acts? [By the Shops (Hours of Closing) Act, 1928, the sale after closing hours of medicine or medical or surgical appliances is permitted "so long as the shop is kept open only for such time as is necessary for serving the customer." Provided that the door is kept shut, we see no reason why the lights should not be kept on, nor why the blinds should be drawn. It is the duty of the local authority to see that the provisions of the Shops Acts are being observed within its area.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Liquor Calcis

The official formula requires the lime to be washed with distilled water until free from chlorides, and in the test says "yields no characteristic reactions for . . . chlorides"; but no mention is made of the presence of sulphates. As it is, perhaps, not possible to remove these entirely by the process of washing, some limit should be put to the quantity present.—*Abel Scholar* (25/7).

Can Automatic Machines Cut Prices?

Some of those who have tried automatic machines seem to have found that there are several objections to them in the shape of foreign coins, metal discs, mechanical troubles, and so on; but there is one point which I have not yet seen mentioned. Can the automatic machine cut prices? Some of the first machines for selling films returned the customer a penny change; and in these days of mechanical devices it would not be difficult to put out a machine which would return a coin with every packet delivered, so that we may yet see the sixpence in the slot machine labelled "Our price, 5½d.—see that you get your change every time."—*Sixpence* (6/10).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

S. M. A. (4/9).—**ACCUMULATOR ACID.**—The following table, which is taken from an article on "Accumulator Electrolytes," published in the *C. & D. Diary*, 1927, shows the weight of water to be added to 1 lb. of sulphuric acid B.P. to produce the required specific gravity:—

Strength of Acid	Distilled Water for 1 lb. H_2SO_4 B.P.	Strength of Acid	Distilled Water for 1 lb. H_2SO_4 B.P.
	lb. oz.		lb. oz.
1.17	3 1½	1.23	2 1
1.175	2 14½	1.24	1 15½
1.19	2 10¾	1.25	1 13¾
1.2	2 8	1.26	1 12½
1.21	2 5½	1.27	1 10¾
1.215	2 4¾	1.28	1 9¾
1.22	2 3½	1.285	1 8½
1.225	2 2¾	1.3	1 7

C. A. C. (1/10).—**ETHYL PETROL.**—The amount of ethylene dibromide added to tetra-ethyl lead is two parts of the former to three parts of the lead dope (both by volume). However, we would draw your attention to the fact that the use of these ingredients for making anti-knock petrol and the employment of leaded petrol for running in motor engines is protected by patent.

S. A. (1/10).—**TRANSFERRING PRINTED MATTER.**—The following procedures are recommended for this purpose: (1) Dissolve 1½ drachm of yellow soap in one pint of hot water, and, when nearly cold, add 3½ ounces of oil of turpentine. Shake the mixture and apply the liquid liberally to the printed surface with a soft brush or sponge, taking care not to smear the ink. Allow the liquid to soak well into the paper, then damp a sheet of plain paper, place it on the printed page as prepared and apply moderate pressure for about one minute. (2) Brush creosote quickly over the printed page and apply a sheet of plain paper previously moistened with a solution of one ounce of soda. In addition metallic transfer paper which is used for steam engine ink cards may be employed for the purpose.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," October 15, 1880

An Antimony Cup

. . . Very delightful were these literary gatherings [at Jacob Bell's house, shortly after the formation of the Pharmaceutical Society in 1841], which took place in a drawing room, the walls of which were hidden by modern paintings. It was at one of these journal committees that a specimen of the "Pocula Emetica, or Cups of Antimony," was placed on the table. . . . The particular cup in question was exhibited at a conversazione by Mr. Trenham Reeks, of the Museum of Practical Geology, in Jermyn Street, having been purchased for one shilling at a Christie and Manson sale. It was rather a striking object, and the inscription, which was surmounted by a coronet, was in rhymed German. The first word, conspicuously printed in a single undivided line, appeared to be "Dubistein." What could be this strange stone or metal? asked [Daniel] Hanbury, always bent on original research. He knew many varieties of stein, but this, he confessed, was new to him. He turned to the Dictionary, but was unable to find any mention of the Duby, or Dubi. Finally, the sub-editor took home the goblet, when, not a pharmacist, but a very clever person, resolved the mystery into "Du bist ein stein."



[Commenced C. & D., July 5, 1924]

Spigelia.—See Pink root.

Statutory Declaration.—A declaration made, under the provisions of some statute, for the purpose of evidence.

Stockholm Tar or *pix liquida* is a bituminous liquid obtained from the wood of *Pinus sylvestris*, Linn., and other species of *Pinus*, by destructive distillation. The bulk of it is produced in Northern Russia, Finland and Sweden. Its use in medicine is of little importance.

Stoppage in Transitu.—The right of an unpaid seller of goods, in the event of the buyer becoming insolvent, to stop the goods and resume possession of them while they are in course of transit to the buyer.

Stramonium.—See Datura.

Strontium derives its name from the village of Strontian, in Argyllshire, where the mineral strontianite containing it was first found in 1787. Strontianite consists mainly of the carbonate. The element also occurs as sulphate in the mineral celestine, often in association with calcium sulphate. It is a light, malleable metal with a silvery lustre when freshly cut; on exposure to dry air it readily tarnishes, becoming coated with a white layer of the oxide. It decomposes water and burns in carbon dioxide; s.g. 2.55; m.p. about 800°; atomic weight 87.63. The oxide, SrO, is obtained by heating the carbonate in the presence of superheated steam. It is a dirty-white infusible solid which glows brightly when heated, and forms the hydroxide when treated with water. Strontium hydroxide separates from water in deliquescent crystals of the formula $\text{Sr}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$. It combines with cane sugar forming an insoluble strontium sucrosate, $\text{C}_{12}\text{H}_{22}\text{O}_{11}(\text{SrOH})_2$, and on this account is extensively used in the beet sugar industry and for extracting sugar from molasses (see Sugar). Medicinally, strontium compounds have a similar action to those of calcium, but are more slowly absorbed. The bromide, iodide and salicylate are the salts usually employed, the first-named being included in the B.P. 1914. It is important that strontium salts be free from contamination with barium owing to the poisonous nature of soluble salts of this latter element. Strontium bromide, $\text{SrBr}_2 \cdot 6\text{H}_2\text{O}$, is a colourless deliquescent solid with an unpleasant bitter metallic taste. On heating it melts in its water of crystallisation, becoming anhydrous at about 130°, and melting at 630°. It is readily soluble in water, about 2 in 1, giving a neutral solution. All soluble strontium salts are incompatible with carbonates, bicarbonates, and sulphates. Strontium is best detected by spectroscopic means by its characteristic orange, two red, and blue lines; the compounds impart an intense crimson coloration to a flame. It may be estimated as sulphate, which is completely insoluble in alcohol, or as carbonate, which is not decomposed on ignition in a bunsen flame.

Strophanthus is the dried ripe seed of *Strophanthus Kombé*, Oliver, freed from the awns (Nat. Ord. *Apocynaceae*), and there are a number of varieties and substitutes which have been identified and described by the late E. M. Holmes, who has done much valuable work on the botanical side of the drug. About twenty-five years ago much confusion prevailed in the trade, and various substitutes and mixed species of strophanthi were imported, as the natives were unable to distinguish *S. Kombé* from the other species, and it was not until the African Lakes Corporation, Ltd., sent out a competent botanist to Nyasaland to instruct the natives that imports of the genuine drug were obtainable. At first,

the seeds were exported in pods to ensure authenticity, but this method proved unsuitable, and when the drug was offered at auction there were no buyers. It was then decided to take the seeds from the pod and free them from the awns. They are then packed in bags or bales of about one cwt. and shipped from Beira or other Portuguese East African ports direct to London. The trade in London is now largely restricted to *S. Kombé*, and there is little call for *S. Hispidus*, which at one period was largely sold to France at a comparatively low figure. The only other description of commercial interest is *S. Gratus*, which is cultivated in the Cameroons, and was officially adopted in the sixth edition German Pharmacopœia (C. & D., November 27, 1926, p. 802) in preference to *S. Kombé*. The reason for the adoption is the fact that g-strophanthin isolated from *S. Gratus*, and known for nearly twenty-five years, has the advantage over the strophanthin obtained from *S. Kombé* of possessing a constant action, and further, that it had been found possible to assay the content of g-strophanthin by means of a simple chemical method. The seeds of other species of strophanthus, such as those of *S. Emini*, *S. Nicholsoni* and *S. Sarmentosus*, have also been met with in the strophanthus of commerce. The seeds of *S. Nicholsoni* have been described by Holmes ("Pharmaceutical Journal," vol. 4, p. 209), and are easily recognisable by their dense whitish hairy coat. They were first brought to Holmes before the introduction of *Kombé* seed, but have occurred in commerce unmixed with the *Kombé* seed some ten years after the introduction of the *Kombé* seed. These seeds are considered by the natives even more poisonous than the *Kombé*. They give the rose-coloured or ouabain reaction with sulphuric acid. The ouabain was originally obtained by Arnaud from the ouabai or wahei poison, *Accoanthera Schimperii*, another apocynaceous plant.

Students' Corner.—See "Corner for Students."

Stupa.—Medicated tow used as a pledget, compress or as a wad in fomentation. Unmedicated tow consists of jute fibres of good average quality, in rolls. Medicated tow should be stored in airtight packages.

Styrax.—See Storax.

Sublimate is an abbreviation of corrosive sublimate, or mercuric chloride, HgCl_2 .

Subpœna.—A writ issued in an action requiring the person to whom it is directed to attend in Court at the time and place stated. A person who disregards a subpœna is liable to a penalty, and may be committed to prison for contempt of Court. Subpœnas are, usually, of two kinds: a subpœna *ad testificandum*, which compels a witness to attend merely for the purpose of giving evidence; and a subpœna *duces tecum*, which requires the witness to bring with him to Court specified documents of which he has custody, and also, if necessary, to give evidence.

Subrogation.—The substitution of one person for another so that the rights of the original person pass to the substituted person. In insurance law, an insurer is entitled to exercise the same rights against third parties as the insured can. This "doctrine of subrogation," as it is called, applies only in marine and fire insurance. Thus, if the owner of a ship insures it and the ship is lost as the result of the negligence of a third party, the underwriters who pay the claim for the assured can take proceedings against the third party for compensation.

Substituted Service.—When service of a summons (q.v.) in an action cannot be effected in the ordinary way upon the defendant personally, the Court may give leave to serve the summons by some other means, e.g., by advertisement, by registered post, or by leaving the summons with some person who is likely to bring it to the knowledge of the party for whom it is intended. This is known as an order for substituted service.

Succession Duty.—A duty paid to the Crown upon the value of property inherited upon the death of the owner intestate or passing under his will. The duty is payable upon freehold and leasehold property, and also upon personal property which passes under the terms of a

The C.&D. Commercial Compendium

settlement. On personal property, in other cases, legacy duty (q.v.) is paid by the beneficiary. The rate of succession duty varies according to the relationship of the beneficiary to the deceased. On property passing to the husband or wife, or a lineal descendant or ancestor of the deceased, the rate is 1 per cent.; upon property passing to a brother or sister, or a descendant of either, the rate is 5 per cent.; and on property passing to any other person, including strangers in blood, the rate is 10 per cent. In the case of estates of the gross value of £300 or £500, upon which the fixed estate duty of 30s. or 50s. is paid, no succession duty is charged. Moreover, persons who would otherwise pay duty at the rate of 1 per cent. are exempt from duty if the total estate does not exceed £15,000, or if the value of the succession is less than £1,000.

Succinic Acid (CH_2COOH)₂, in small quantities is very widely distributed and occurs in the fossil resin amber, in fossil wood, in various living plants, in some cereal grains, in extracts of meat, in the urine of some animals, and elsewhere. It was formerly obtained by distilling amber, but is now obtained by fermentation processes, either as a by-product of the fermentation of sugar, in which case it is derived from the decomposition of the proteid material of the yeast cells, or by the fermentation of a tartrate with a specific organism. It is related chemically to tartaric acid, which is its di-hydroxy derivative. Succinic acid occurs as yellowish monoclinic prisms melting at 183°, subliming at a higher temperature and boiling at 261°. It is soluble in water, 1 in 20, and in alcohol, 1 in 10. The pure acid can be used as a standard in alkalimetry. When heated with a dehydrating agent, each molecule of succinic acid loses one molecule of water giving succinic anhydride (CH_2CO)₂O, a colourless, crystalline substance, melting at 120°, which is used in the dye industry.

Succory.—See Chicory.

Suet.—Suet consists of the kidney fat of certain animals. In commerce there is a distinction between beef suet and mutton suet, the former being obtained from oxen, cows and calves, whilst the latter is obtained from sheep and goats. The main distinction between the two lies in chemical differences in the composition of the triglycerides, mutton suet being usually richer in stearin than beef suet. The quality of suet depends on a number of factors, such as the breed and age of the animal; the type of feeding, etc., and the sex. Brewery refuse as a food tends to produce soft suet, whilst grass feeds tend to hardness. Generally speaking, the fats from different parts of the carcass, although of unequal value, are not kept separate, unless the fat is to be used in the manufacture of oleo-margarine. In that case the suet and the bowel fat (midgerum fat) is dealt with separately. By melting this selected fat at low temperatures the "premier jus" is obtained. The commercial brands of tallow are: (1) Rendered tallow containing *all* the fats; (2) pressed tallow, tallow stearine; (3) "premier jus" (q.v.). Certain artificial cooking fats are sold as substitutes for suet or dripping. They consist of a mixture of suet and cottonseed oil or cottonseed stearine. The iodine value is the readiest answer to the amount of cottonseed oil present. Prepared suet consists of stearin and palmitin, 70 per cent.; olein, 30 per cent.; hercin, a trace. It has the following analytical characters:—Saponification value, 192°-195°; iodine value, 33-46; refractive index at 60° C., 1.449-1.451; m.p., 45°-50° C. The acid value should not be higher than 2. Suet is insoluble in water or alcohol, moderately soluble in ether and in boiling alcohol, and very soluble in petroleum benzene. In India, prepared suet is directed to be used in official preparations in place of prepared lard. In pharmacy in this country it is used chiefly as a solvent of phosphorus and salicylic acid.

Sugar Cane Wax.—This is a by-product of the sugar cane industry, and is made from the residue of the cane juice. It has not been exploited to any great extent, though there are possibilities in this direction, the uses

being for gramophone records, candles, waxing paper and polishes. At one period the sugar milling interests in Natal were producers, but owing to the small and irregular demand production was abandoned.

Sugar of Milk.—See Milk Sugar.

Suites of Display Accessories.—Some chemists spoil their windows by the use of display fittings of all sizes, shapes and materials. A much more attractive and uniform effect is obtained if the same type of fitting is used throughout. Complete suites of display stands are obtainable with metal or wooden pedestals of varying heights and oval and round glass shelves of different sizes. The modern pharmacist changes his display equipment as often as he changes the goods shown in his window, and this produces a difficult problem in the small shop—the storage of equipment. To-day the chemist may find himself with as many as six different display sets in hand, in addition to various supplementary accessories, and the problem tends to become more acute as new display equipment is introduced, as it is not always wise to dispose of one set as soon as another arrives, for not all the new fittings are adaptable to every form of display. Collapsible display suites will appeal to chemists faced with the difficulty of space. One set comprises a series of cylinders which pack together into one, and thus take up relatively negligible space when not in use. There are five cylinders altogether, which with the lid, which also serves as a display stand if necessary, make up a six-in-one display set. The cylinders are hollow and lined inside to prevent scratches as they slide one in the other. They are made of sheet iron with a sprayed finish of black, silver, pewter, gilt, bronze, or any other colour to order, and are available in two sizes: one ranging from 30 in. to 6 in. with 6 in. graduations between each cylinder; the other in heights varying from 20 in. to 4 in., in multiples of 4 in.

Sumbul or Musk root is the dried rhizome or root probably of the Umbelliferae family. It appears to have come into commerce in Russia as a substitute for musk about the year 1835. It became known in Germany in 1840, and in England ten years later, and was admitted into the British Pharmacopœia in 1867. The plant yielding it was discovered in 1869 by a Russian traveller, Fedtschenko, in the mountains of Maghian, near Pianjakent, a small Russian town eastward of Samarkand. Five years ago Holmes examined samples that possessed a distinct but faint flavour of angelica. All previous specimens for many years that had come under his notice consisted of roots, either without any definite flavour, except bitterness, or were more or less decayed or sometimes evidently did not belong to the Umbelliferae at all. The original musky specimens of sumbul root recently examined by Holmes still retain the distinct musky odour of more than fifty years ago. Those of recent importation of sumbul root do not possess a musky odour, but when tasted the flavour of angelica was distinctly, though feebly, evident, and the structure and size are apparently identical with those of the musky-smelling old sumbul of over fifty years ago. It is curious, says Holmes ("Pharmaceutical Journal," II, 1925, 633), that the old musk root only appeared in commerce for thirty or forty years, and then disappeared, to be supplanted by a different root, agreeing only in its bitterness and general structure. The illustration of the sumbul root given by Planchon and Collin (tome 2, pp. 230-1, figs. 807-9) apparently illustrates the muskless sumbul that has been in commerce for so many years, and attributed to *Ferula suaveolens*, particularly the figure 807, although the description of its constituents seems to have been taken from the description in "Pharmacographia" of the genuine old musky sumbul. That given in "Pharmacopœia," p. 600, fig. 3, represents a section of the old musky sumbul root, that of the angelica-tasting recent root is almost exactly the same. Sumbul is chiefly prescribed in the form of a tincture, and the fluid and solid extracts as a stimulating tonic.

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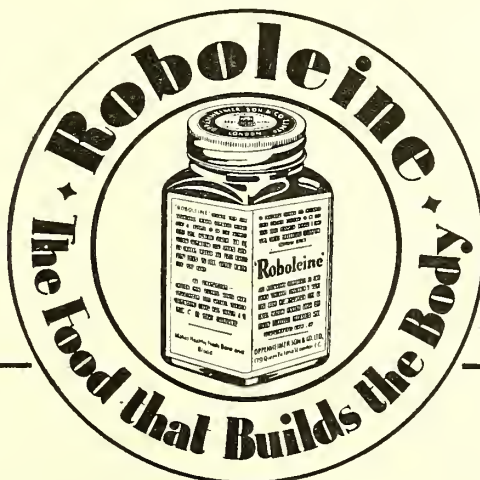
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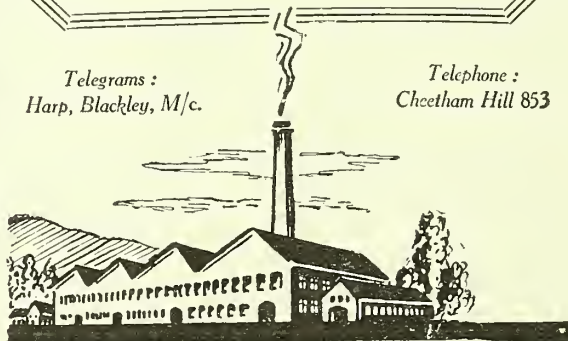
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SHAVING SOAP**
at 6d. per Stick

This is a shaving soap of superfine quality; in fact, it combines shaving soap, skin tonic and after-shaving lotion in one.

*Order supplies through your Wholesaler
direct from*

**The BEECHAM-VENO CENTRAL
DISTRIBUTING DEPOT,
Chester Road - MANCHESTER**

Germolene
(MEDICATED)
TOILET SOAP

May we call yourattention to:—**PETROLAX** (BROWN CARTON)

(REGISTERED TRADE MARK)

THE IDEAL PARAFFIN AND AGAR-AGAR EMULSION

PETROLAX COMPOUND

(RED CARTON)

A COMBINATION OF PETROLAX AND PHENOLPHTHALEIN

PETROLAX ALKALINE

(BLUE CARTON)

A COMBINATION OF PETROLAX AND MIST. MAGNES. HYDROXIDI

Note the Prices:—RETAIL 2/- (Nominal $\frac{1}{2}$ lb.) 14/- doz.

„ 3/6 („ 1 lb.) 24/- „

„ 6/- („ 2 lb.) 44/- „

Stocked by the leading Patent Houses, or direct from the **SOLE MANUFACTURERS:—****C. R. HARKER, STAGG & MORGAN, LTD.**

Mile End, London, E.1

Black**Beauties!**

1 lb. - 3/-
 4 lb. - 2/10
 7 lb. - 2/9
 14 lb. - 2/8
 net.



1 lb. & 4 lb.
 tins free.
 5 lb. Show
 Jars charged
 1/3 (return-
 able).

Antiseptic Throat Pastilles
Sold in BULK

EVANS SONS LESCHER & WEBB LTD.**The Profit's the thing**

A steady profit is assured if you stock

CONSTIPONThe demand is good, and
sales are increasing daily.**TABLETS per box 3d., 6d. & 1/-**

Stocked by Scottish Wholesale Druggists.

CONSTIPON**65 West Regent Street, Glasgow.****A SPLENDID SELLER!**Dr. Lalor's Phosphodyne is not a new line; it has been
held in high esteem in all parts of the world for more
than sixty years.The finest remedy for **DEBILITY, NERVOUS EXHAUSTION,**
LOSS OF APPETITE, MALARIA, MENTAL and PHYSICAL
LASSITUDE, NEURALGIA, SLEEPLESSNESS.

Dr. LALOR'S

Phosphodyne**HOW ARE YOUR STOCKS?**Dr. LALOR'S PHOSPHODYNE LABORATORY
71 Parliament Hill Passage, Hampstead, N.W.



Glycerine Lemon and Honey

The Children's specific, always in demand. A perfect demulcent of crystal clearness and delightful taste.

Forceful display stand with 2 dozen.
2½ oz. 6/3 dozen 5 oz. 9/6 dozen

Winter Remedies of Tested Standard Quality



Pectorine Cough Tablets

A splendid proposition. The tablets have a pleasant taste, the formula is sound, the show material arresting, the prices right.

400 x 2 oz. Cartons free per cwt.
Retail 3d. per oz. 28 lbs. 1/8 lb.

**Quick Sellers
producing handsome
profits**



**Attractively packed
with
Show Material
of selling power**



"Stirrup Cup" Ginger Wine Essence

Combines the characteristic "bite" of the modern beverage with the delicacy and smoothness of the old fashioned home-made cordial.

Display stand with 3 dozen.
Per 5/6 dozen Per 60/- gross

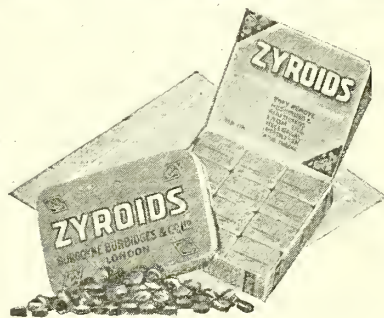
Normo- Gastrine

For digestive disorders due to Hyper-acidity. A perfect anti-acid having no alkaline reaction. Relieves in 20 minutes. Sample on application.

Powder :
Per 10/- doz.
P.A.T.A. 1/3

Tablets :
50's 12/- doz.
100's 20/9 "
P.A.T.A.
1/6 & 2/9

Less 25%



Zyroids

Liquorice and Menthol Pellets. Now in demand. Smooth to the palate, clears the voice and stimulates the throat.

Display outers of 3 dozen.
Retail 4½d. Per 2/6 dozen

BURGOYNE, BURBIDGES & CO., LTD.
Manufacturing Chemists, LONDON, E.6. Est. 1741

Compound Syrup of Hypophosphites

TRADE **"FELLOWS"** MARK

The ideas supported by the medical world to-day on the therapeutic value of calcium and other mineral salts were embodied 60 years ago in **"FELLOWS."**

The only preparation of its kind then, **"FELLOWS"** still stands alone for its tonic qualities in the treatment of run-down conditions of health and the many forms of anæmia and nervous ailments which so often result.

"FELLOWS" has not been successfully imitated. It is recommended by doctors in more than 58 countries.

Display **"FELLOWS"** in your windows. It is advertised in the leading magazines and daily newspapers.

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Fellows Medical Manufacturing Co., Inc.

26 Christopher Street

New York City, N. Y.

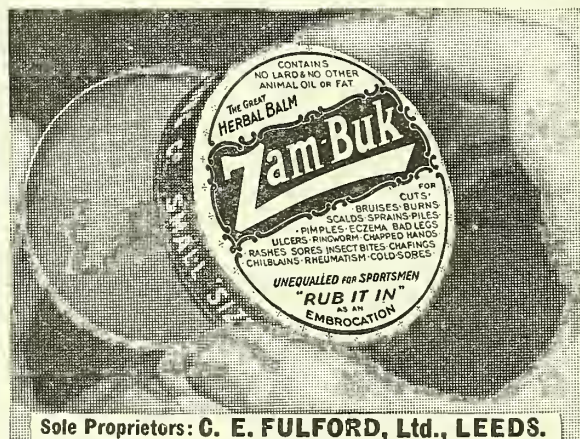
Distinguished Pharmaceuticals For Dispensing Chemists

CALCIUM-SANDOZ
DEXTRI-MALTOSE
FELAMINE
FEMERGIN
GLUCOSE-SANDOZ
HORMOTONE
LIQUID PEPTONOIDS
NEO-CULTOL
PYORRHOCIDE
TRYPSOGEN

Sole Agents:—

BROOKS & Warburton, Ltd.

232-240, VAUXHALL BRIDGE ROAD,
LONDON, S.W.1.



Sole Proprietors: C. E. FULFORD, Ltd., LEEDS.

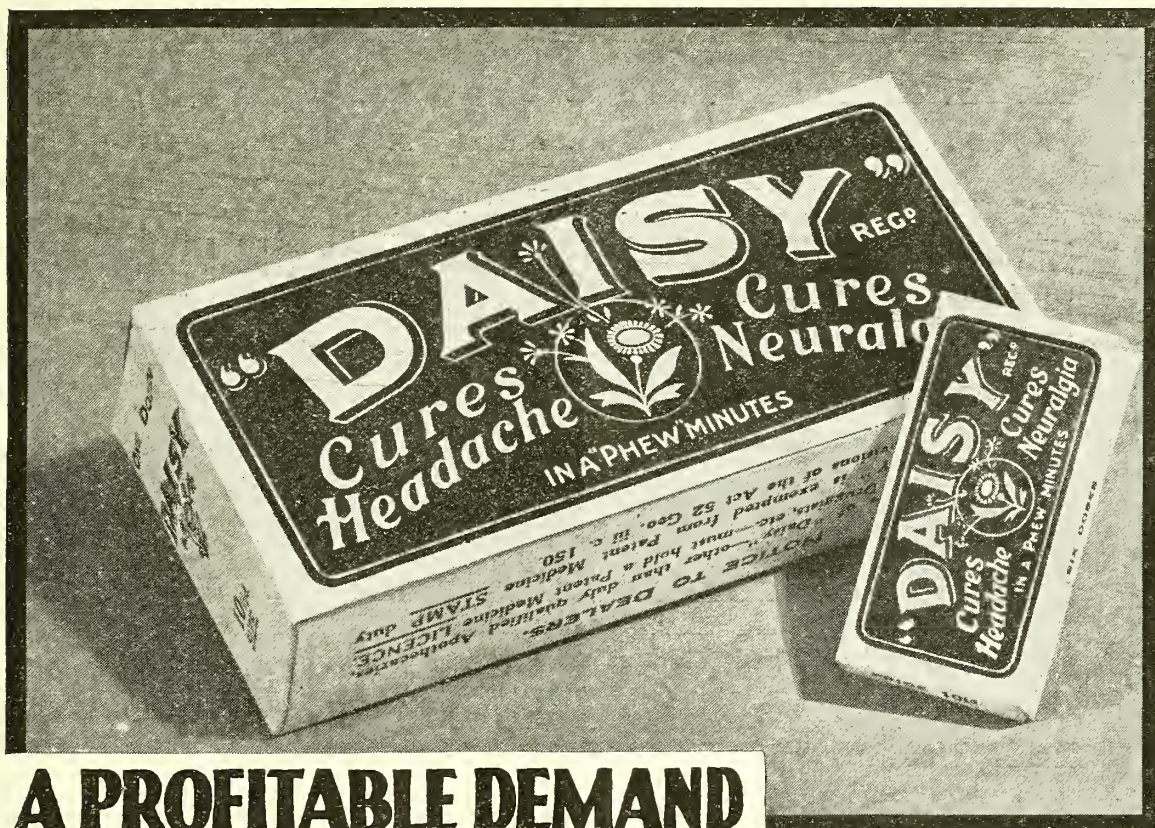
GARFIELD TEA

PROMPT SHIPMENT
ALL SIZES

'Phone or Write:

GARFIELD TEA CO.

44 Foxbourne Road
BALHAM, LONDON, S.W.17.



A PROFITABLE DEMAND

The "half-dozen" box of Daisy Powders has become so popular that we have decided to make a special feature of this pack.

Every Daisy advertisement now carries an announcement that the "half-dozen" boxes are obtainable from all Chemists.

If your present Daisy sales consist largely of single powders we recommend you to give greater prominence to the "half-dozen" boxes as a means of increasing your turnover.

P.A.T.A. PRICES

10½d. boxes containing 6 Powders
7/10½d. Per Dozen Boxes
Half-Gross Boxes containing
72 Powders 7/6 Per Box

WINDOW DISPLAY BONUS

Discount of 5% is allowed on orders to the value of £3, provided a Window or Counter Display for seven days is given.



J. E. ELLIS, LTD., HORSFORTH, LEEDS

WINTER NEVER FAILS!

WRITE FOR TERMS NOW

MALT AND OIL

BRITISH MANUFACTURE

The Extract of Malt used in this preparation is guaranteed prepared only from the finest home-grown Scottish Barley.

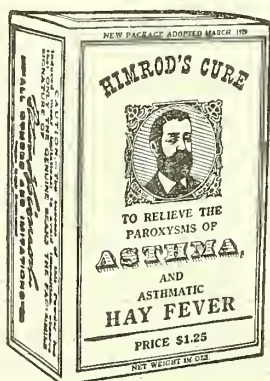
ROBERT BLACKIE

(Sole Manufacturer and Proprietor of the World-famed "SPUN" OINTMENTS).

SHEN WORKS, TOWER BRIDGE ROAD, LONDON, S.E.1

Phone: HOP 2422 (2 lines)

Telegrams: "USHENSPUNA, LONDON."



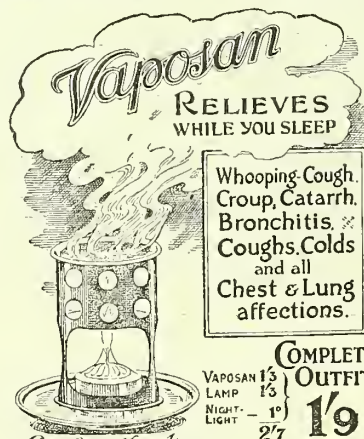
**Profitable,
Repeat Business and
Satisfied Customers**

Standard For Over 60 Years
Himrod Manufacturing Co.
HOBOKEN, N. J., U. S. A.

—Order From Your Service Jobber—

A SEASONABLE LINE

LIBERAL PROFIT. POPULAR PRICE.



Purifies the Air
KILLS THE GERM AND INSTANTLY EASES THE COUGH.
FROM ALL CHEMISTS.

14/- per dozen

Send for free sample to:

McCLURE, YOUNG & Co., Ltd.

MANUFACTURING CHEMISTS

Glenthams Road - Barnes, S.W.13

"UROTEx" Brand

KIDNEY, BLADDER & RHEUMATISM TABLETS

The Big Advertising Campaign now in operation

Includes the following Papers:—

"Daily Express"
"News-Chronicle"
"Daily Herald"
"News of the World"
"Empire News"
"People"
"Sunday Chronicle"
"Reynolds's"
Etc., Etc.

This Advertising Campaign will be vigorous and continuous.

BIG New Season's NATIONAL ADVERTISING CAMPAIGN Already Commenced

"UROTEx" Brand TABLETS, the Big Success in the U.S.A., although only last season introduced to the Trade and General Public in this country, have in a very short time quickly established themselves as a Quick and Ready Seller. YOU should therefore order Your Stock To-day and thereby secure YOUR Profit on this Highly Popular Line.

Regd. Brand

Urotex

Kidney, Bladder and Rheumatism Tablets.
DIURETIC AND ANTISPASMODIC COMPOUND IN ACID CONDITIONS

Take one tablet after each meal. Follow complete directions enclosed for best results.

1 week's supply, **Price 3/-**

Sole distributors for

The Knox Company
G.M. WILLIAMS & CO.
81 Lamb's Conduit St.,
London, W.C.1

Write for Full Particulars of Generous Trade Terms to **SOLE DISTRIBUTORS** for the **KNOX COMPANY** in **GREAT BRITAIN**

G. M. WILLIAMS & CO.,

81 Lamb's Conduit Street, LONDON, W.C.1

Telephone: Museum 5744

CROOKES' EMULSION



50% Cod-liver Oil from Cod caught in British Waters.

A product for personal recommendation because it has the support of the highest medical authorities.

A product that enhances the reputation of the pharmacist.

Particulars on application.

THE CROOKES' LABORATORIES

(BRITISH COLLOIDS, LTD.),

22, Chenies Street, London, W.C.1.

Manufacturing Laboratories: PARK ROYAL, LONDON, N.W.

Telephone: MUSEUM 3663—3697—5757. Also BOMBAY & NEW YORK. Telegrams: "COLLOSOLS, WESTCENT, LONDON."

EXPORT DISTRIBUTING AGENTS:—AYRTON, SAUNDERS & CO., LTD., Liverpool.



HOME MADE BEER

from

MASON'S EXTRACT OF HERBS

THE NATIONAL BEVERAGE :
SELLS FREELY EVERYWHERE

UNIQUE DISPLAY MATERIAL
EASILY ARRANGED

Folder Showcard. Half-pint Mug.
Imitation Bottle of Beer, &c.

WINDOW SHOW ALLOWANCE
WITH OPENING ORDER

Apply to NEWBALL & MASON, LTD.,
Nottingham, for particulars.

GOOD IT'S MASON'S

Products of the
**BATTLE CREEK
FOOD CO.,**
Michigan, U.S.A.

LACTO-DEXTRIN
A FOOD
FOR CHANGING THE
INTESTINAL FLORA

PSYLLA
LAXATIVE
THE BATTLE CREEK FOOD CO.
BATTLE CREEK, MICH., U.S.A.

YOU SHOULD STOCK THESE TWO FOODS !

Lacto-Dextrin, a food for changing the intestinal flora, 12 oz. packings 4/-, 5 lbs. 22/-;—Psylla, intestinal vegetable lubricant, 10 oz. packings 4/-, 5 lbs. 24/-.—Both these foods are being regularly advertised to the Medical Profession throughout the year. Liberal discounts. Order through your wholesaler or write direct to:

Wholesale & Distributing Agents for United Kingdom & Irish Free State:
COATES & COOPER
41 GREAT TOWER ST., LONDON, E.C.3

PURE SPANISH
GRAPE JUICE



MOSTELLE

MADE BY RAFAEL ESCOFET

IN TARRAGONA (SPAIN)

Pure unfermented
juice of ripe
grapes. It is a
wholesome, nour-
ishing drink, with
all the properties
of fresh grapes.

Stocked by
John Bell and Croyden
50-52 Wigmore St., W.1
MAPLETON'S Nut Food
Co., Ltd. Garston, Liverpool

PRICES:
**GOLDEN
MUSCAT**
Large bott. 3/6
Small bott. 2/3
RED
Large bott. 3/-
Small bott. 2/-

"VITAMIN TESTED YEAST"

Yeast specially prepared for medicinal
purposes.

GUARANTEED ABSOLUTELY PURE.
MIDGLEY & PARKINSON, LTD.,
WARREN WORKS, PUDSEY, LEEDS.

ALL CHEMISTS
SHOULD STOCK

ABDINE

THE GOLD MEDAL HEALTH DRINK.

Quick Seller. Big Profits. Over 50 years' Reputation.
"Abdine" is the most popular Health Drink. Perfectly safe for all ages.
Made from choicest fruits, it does not contain Epson or Glaufer Salts. Year
after year the sales are steadily increasing.

DUNCAN McGLASHAN, LTD., ABDINE WORKS, WESTFIELD RD., EDINBURGH

SHOWS OVER 33% PROFIT.

4 1/2^D **HOLIDAY'S** **4 1/2^D**
per tin. **GINGER BEER CRYSTALS**

ONE TIN MAKES TWO GALLONS OF
Sparkling Home-Brewed Ginger Beer
NO BOILING OR STRAINING REQUIRED.

36/- per gross, nett. Carriage Paid. Packages Free.
3 doz. sample lot, post paid, 10/-. Advertising & Show Matter.

SOLE MANUFACTURERS:
HOLIDAY & CO, LTD., City Mills, Durham.

LEASE of IMPORTANT CITY OFFICES for SALE WITH VACANT POSSESSION

42 CANNON STREET, E.C.4

In consequence of the recent amalgamation of Messrs. Morgan Brothers (Publishers), Ltd., Proprietors of "THE IRONMONGER" and "THE CHEMIST AND DRUGGIST," with The Engineer, Ltd., Proprietors of "THE ENGINEER," the offices of the three journals have been moved to new and more commodious freehold premises, which have been acquired at 28-31 Essex St., Strand, W.C.2. The lease of the entire premises at 42 Cannon Street, of which the four well-lighted upper floors have been in the occupation of Morgan Brothers (Publishers), Ltd., the Ground Floor and Basement being sub-let to the Aerated Bread Co., Ltd., is in consequence for sale. Alternatively, the four upper floors (which have also an entrance to Garlick Hill), having a total area of about 7,000 ft., would be let. The premises are in good order. Rent £2,000 per annum, inclusive of rates.

For further particulars, apply to Messrs. FAREBROTHER, ELLIS & CO.
29 FLEET STREET - - - LONDON, E.C.4
or to HENRY BUTCHER & CO., 63 & 64 Chancery Lane, London, W.C.2

Lease of Imposing Offices for Sale

WITH VACANT POSSESSION

33 NORFOLK
STREET - -
STRAND, W.C.2

For further particulars
apply to
WHATLEY, HILL
& CO., 24 Ryder St.
St. James's, S.W.1 - -

In consequence of the recent amalgamation of THE ENGINEER, LTD., proprietors of "THE ENGINEER," with MORGAN BROTHERS (PUBLISHERS), LTD., proprietors of "THE IRONMONGER" and "THE CHEMIST AND DRUGGIST," the offices of the three journals have been transferred to new and more commodious freehold premises which have been acquired at 28-31 Essex Street, Strand, W.C.2.

The remainder of the lease, covering a further twenty-five years, of the offices at 33 Norfolk Street, W.C.2, is in consequence for sale. This particularly well-lighted, five-storey building has an area of 8,200 sq. ft., and occupies a site at the corner of Norfolk and Howard Streets, adjacent to the Temple Station, whence Westminster and the City may be reached in a few minutes. The building is of modern construction and has a fine and distinctive elevation. It is in good order throughout. Rent £1,600. Moderate price.

PURE MALT EXTRACT

with *FINEST*

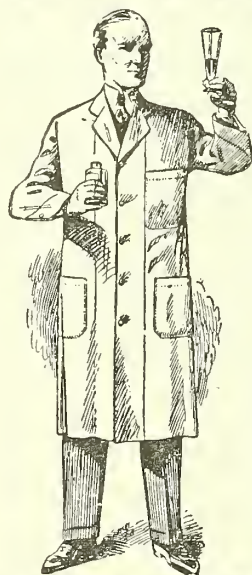
NORWEGIAN COD LIVER OIL

The Brand that does not separate nor crystallize.

Your own name and address on labels. In English jars, etc. Direct from the actual manufacturers.

THE BRITISH DIAMALT COMPANY
SAWBRIDGEWORTH - - HERTS.

OVERALLS



SEND FOR NEW ILLUSTRATED LIST

Jackets and Coats of very superior quality, made from the most reliable materials, smartly cut and thoroughly well finished in every detail.

WHITE DRILL JACKETS
6/11, 8/11, 10/6

KHAKI DRILL COATS
6/11, 8/6, 10/6, 12/6, 14/6

WHITE DRILL COATS
7/6, 9/6, 12/6, 13/6, 15/6

BLACK DRILL COATS 15/6
GREY COTTON COATS 7/6

STOCK SIZES: 34 to 44 chest. Special pockets and little adjustments can be made without extra charge. POSTAGE on single coat 9d., but 20/- orders upwards carriage paid.

**SPECIAL PRICES FOR
LARGE QUANTITIES**

GARDINER

& CO. (The Scotch House), LTD.
1, 3, 5 Commercial Road, LONDON, E.1

Telephone: Bishopsgate 6751.

Established 1839.

REGISTERS.

Dangerous Drugs Act.

Morphine, Diamorphine (Heroin), Cocaine, Ecgonine, Medicinal Opium, Indian Hemp, Dihydro-Oxycodone and Dihydrocodeinone Register, 48 pages, 4/-

Ditto, for Doctors' use, 48 pages, 4/-

Raw Opium Register, 16 pages, 3/-

Morphine Register, 48 pages, 3/-

Cocaine Register, 48 pages, 3/-

Medicinal Opium Register, 48 pages, 3/-

Larger size for Wholesale Trade. Prices on application.

Spirit.

For records of Spirit used in manufacture, to claim rebate. 48 pages, 3/-

Methylated Spirit.

For Records of Purchases and Sales of Methylated Spirit in accordance with Order which came into operation February 1st, 1926. 42 pages, Ruled, with Printed Headings, 3/-

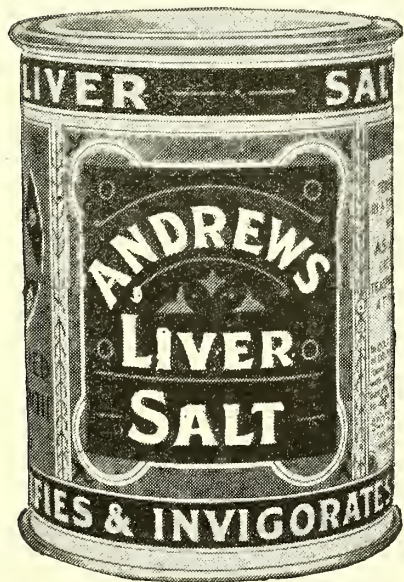
All these are 8 x 5, oblong, and Quarter-bound.

JAMES TOWNSEND & SONS,

CHEMISTS' PRINTERS, EXETER.

LONDON OFFICE: 54, FARRINGTON ST., E.C. 4

Andrews Winter Bonus



The ANDREWS special Winter Bonus Offer ends on November 8th. If you have not yet received particulars please apply to the address below, or to your Wholesaler.

The Bonus is available to those who co-operate by giving displays to link up with the special winter advertising campaign, which will be on more extensive lines than ever.

The sale of ANDREWS in Winter increases each year. The public are appreciating more and more that it is beneficial to take ANDREWS all the year round, Winter and Summer alike.

See that you get your share of this increased Winter trade.

SCOTT & TURNER, LTD.,
Gallowgate, Newcastle-on-Tyne.

RUBBER SPONGES

"Victor" RUBBER SPONGES

Write for particulars, or order your requirements from your regular wholesaler. We also specialise in RUBBER SPONGE FLOORING, MATS, SHEETS, HOT WATER BOTTLES, HOSPITAL SHEETINGS, ETC.

OUR "VICTOR" Rubber Sponge has for many years been acknowledged to be the ideal sponge for toilet use.

Its special feature is the fine texture and smooth surface, a result achieved by special selection of the best quality durable rubber, and our own methods of technical control and manufacture.

SIX SIZES, OVAL AND ROUND.

BRITISH THROUGHOUT



FOR LONG SERVICE

The IOCO RUBBER & WATERPROOFING CO. LTD
Netherton Works, Anniesland. Glasgow. W.3.

Surgical Rubber Goods

VENUS, OWL, GODIVA
& BALLOON BRANDS.

NOTICE.—Several instances of the sale of VENUS BRAND goods other than their make having been brought to the notice of Joseph Harris & Co., their Solicitors are instructed to take proceedings against anyone (Makers or Vendors) fraudulently using the name or design of VENUS or any imitation thereof in connection with Seamless Moulded Goods.

SEAMLESS MOULDED SURGICAL GOODS, PESSARIES, HOT WATER BOTTLES, URINALS FOR NIGHT OR DAY USE. Wholesale & Export Only.

JOSEPH HARRIS & CO., Rubber Works, Broadheath, Altrincham.

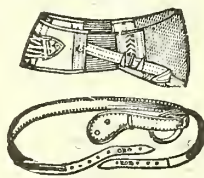
J. H. HAYWOOD, Ltd.

Surgical Appliance Manufacturers,
Castle Gate, NOTTINGHAM

Telephone: 40488 NOTTINGHAM.

Established 1833

SPECIALITIES FOR WINTER.



ELASTIC HOSIERY (Seamed and Seamless), TRUSSES (Spring and Elastic), SUSPENSORY BANDAGES, BRACES, LADIES' AND GENT'S ABDOMINAL BELTS for support and warmth, made in felt, flannel and fleecy.

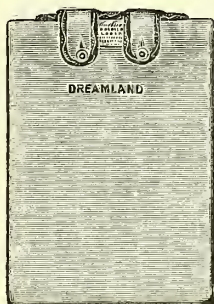
CHEST PROTECTORS, SLEEPING SOCKS, INDIA-RUBBER AND AIR-PROOF GOODS, NURSING REQUISITES, DRUGGISTS' SUNDRIES, &c.



PRICES ON APPLICATION

HOT WATER BOTTLE COVERS

FOR A WARM XMAS GREETING

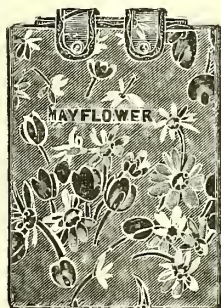


"DREAMLAND."

H14a VELOURS COVERS

ARE STILL THE STANDARD
OF EXCELLENCE AND VALUE

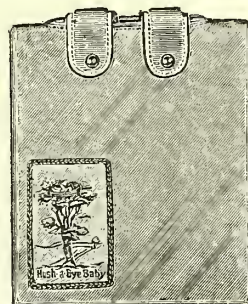
SEND AT
ONCE FOR
OUR NEW
ILLUSTRATED
LIST
containing
full
particulars.



"MAYFLOWER."

STILL
FURTHER
REDUCED
PRICES.

ALL
BRITISH
MATERIAL.



"NURSERY RHYMES."

ARTIFICIAL SILK COVERS
IN A WIDE RANGE OF SOFT
PASTEL SHADES. Each in Cellophane

FROM ALL
WHOLESALE

SPECIFY "SOLPORTS' MAKE."

SOLPORT

BROTHERS LIMITED

SPECIAL
NOVELTY COVERS

IDEAL FOR PRESENTATION.

SEE SPECIAL LIST.

IF UNABLE TO OBTAIN
FROM YOUR USUAL
WHOLESALE WRITE US
DIRECT.

DISPLAY
NORVIC
BLUE CARTON ^{Regd}
and INCREASE
your
CRÊPE
BANDAGE
SALES

To show NORVIC Blue Carton Crêpe Bandages is to sell them. Customers recognise this thoroughly dependable line and are prompted to buy. Well advertised and highly recommended.

Full 33 1/3 % Profit P.A.T.A.

Cost.	Sell.
2" 12/- doz.	1/6 each
2 1/2" 15/3 "	1/11 "
3" 18/3 "	2/3 "
3 1/2" 21/3 "	2/8 "
4" 24/3 "	3/- "

Stocked by all the
leading wholesalers.
Show cards free.

Sole Manufacturers:
Grout & Co., Ltd., 35 Wood St., E.C.2.



Best sellers
The
public is asking
for **ZEAL**
CLINICAL
THERMOMETERS
because they are:-
GUARANTEED TO
STAY ACCURATE
CONSISTENTLY
ADVERTISED

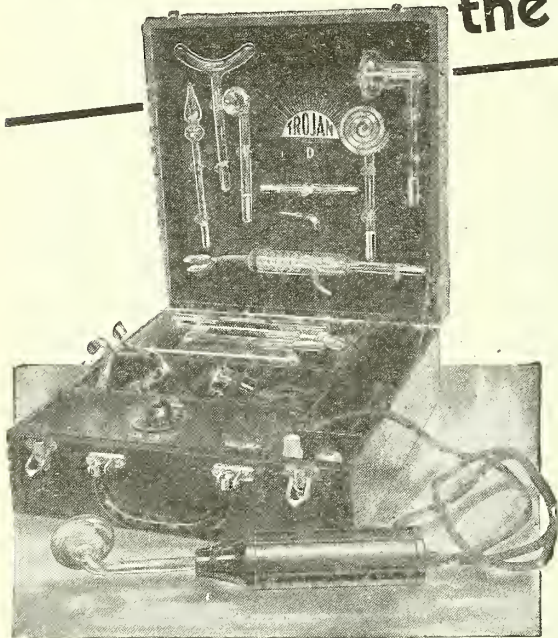
Made by
ZEAL

-the name the
public knows.

G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.



Have YOU heard about the new **TROJAN** Outfit?



Every enterprising Chemist should have full particulars of the latest addition to the TROJAN range—it is absolutely the last word in High Frequency Electrical Outfits. It has been specially designed to meet the demand for an outfit equally as efficient as our larger models, but to sell at an astoundingly low price.

Why not send right away for particulars of the new Trojan Outfit, Model No. 0, and our Scheme for selling 20 Outfits a week?

JOHN SHAW & SONS
WOLVERHAMPTON LTD

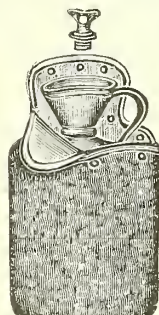
(Established 1795)

Head Office and Works - - - WOLVERHAMPTON
Telephone: Wolverhampton 1001.
Telegrams: "Shaw Wolverhampton."

London - - - 29 Shoe Lane, E.C.4
Telephone: Central 1814.

MANCHESTER - - 5 Orme Buildings, Parsonage
Telephone: Blackfriars 1365.

BCM/SELMOR



HEWLETT LONDON
Open.

THE "CHARLOTTE" (Regd.) HOT-WATER BOTTLE COVER

"Its novelty consists in the cover which encloses the stopper completely."—
British Journal of Tuberculosis.
"Accidents certainly happen with some frequency through the employment of uncovered bottles."—*The Lancet.*

THE ONLY SATISFACTORY HOT-WATER BOTTLE COVER ON THE MARKET.

	Best Quality. (Velour)	2nd Quality. (Plushette)		Best Quality. (Velour)	2nd Quality. (Plushette)
8×6 in.	20/3	12/- doz.	12×8 in.	25/-	16/- doz.
10×6 in.	21/6	13/- "	12×10 in.	26/-	18/9 doz.
10×8 in.	23/-	15/- "	To fit the moulded hot-water bottle, size 11½"×8"		
			Velour 26/- doz.	Plushette 18/9 doz.	

Supplied in pink, blue, peach and grey.

MANUFACTURED ONLY BY

C. J. HEWLETT & SON, Ltd., 35/42 Charlotte St., London, E.C.2



Closed.

"STERAID" Regd. Dressings

Patent No. in Great Britain
221761/1924 and patented in all
the principal foreign countries.

Patent Rotating Canister packing to retain aseptic conditions. In use, only the amount required is withdrawn and cut off. The remainder is not exposed.

GAUZES.

	Minimum Public Price: Each	Minimum Trade Prices Per Doz.		Minimum Public Price: Each	Minimum Trade Prices Per Doz.
Sal Alembroth	6-yd. 3-yd. 1-yd.	6-yd. 3-yd. 1-yd.	Plain Absorbent	6-yd. 3-yd. 1-yd.	6-yd. 3-yd. 1-yd.
Sublimate	2/3 1/3½ -/8½	20/3 11/6 6/4	Double Cyanide	2/- 1/5 -/9	22/6 12/9 6/9
Carbolic			Picric	3/- 1/8 -/10	27/- 15/- 7/6
Boric			Iodoform		

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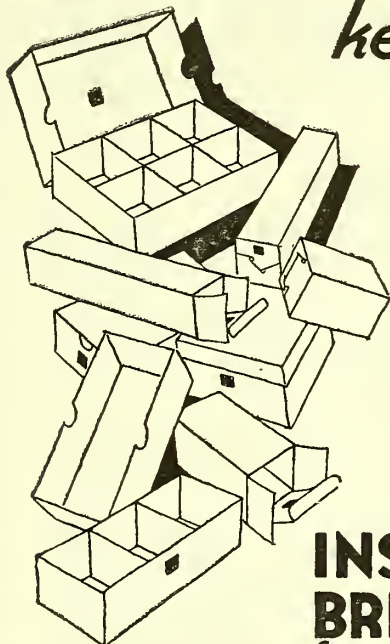
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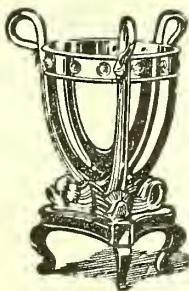


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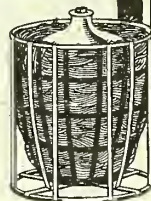
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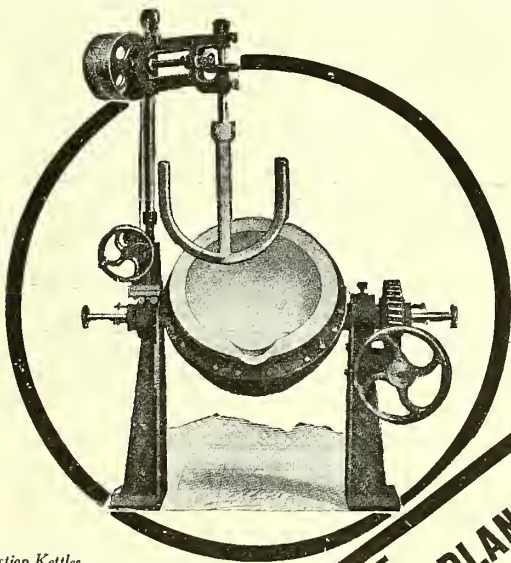
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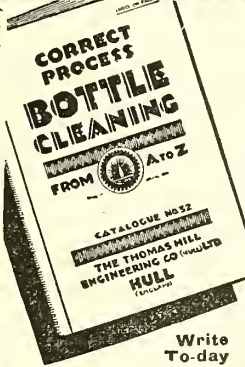
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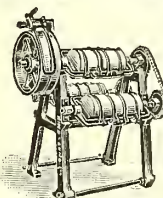
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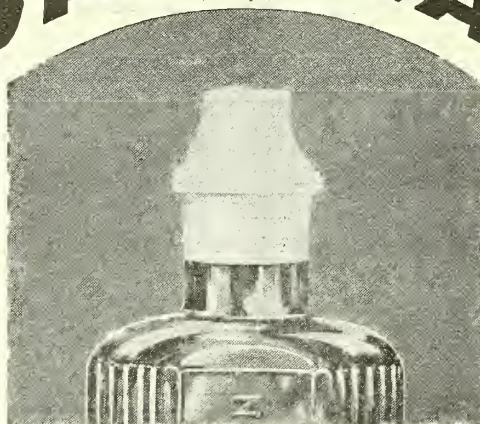
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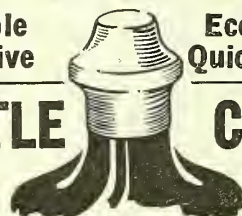
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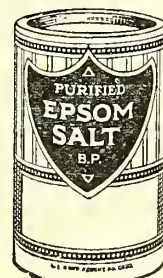
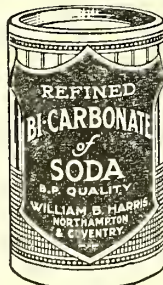
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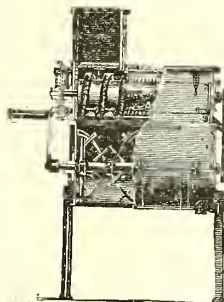
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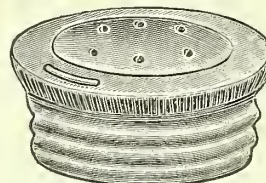
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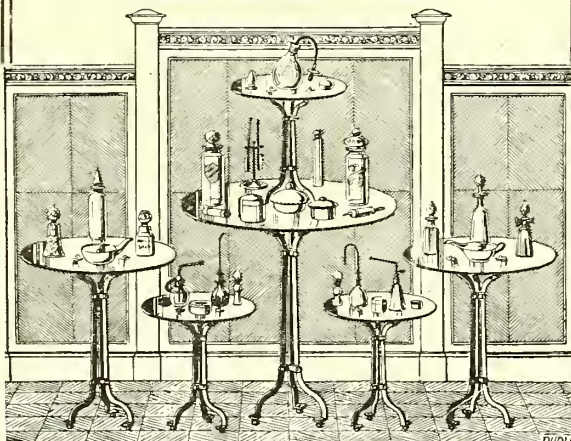
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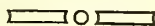
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1.—LONDON, S.W.—Old-established Chemist's Business, held on lease 8 years at £56 p.a.; let off £91 p.a.; returns average £17/20, under management; premises consist of double-fronted shop with two rooms behind; price for lease and goodwill, £150; fixtures, etc., £150; stock at valuation, approximately £350. Further particulars on application. (43)

2.—LONDON, N.7.—Old-established Optical Business, combining recently established Pharmacy, held on lease with 14 years to run at a rental of £250 p.a., of which £135 is let on lease; returns £28 per week; very large shop, dispensary and sight-testing room, situate in busy main road; no opposition for some distance. Further particulars on application. (42)

3.—MANCHESTER.—Old-established Retail Business for quick disposal; yearly tenancy; rent £150; returns for the last 40 years average over £50 weekly; at present returns are £35 weekly; nicely fitted and good stock; Wine and Spirit Licence; living accommodation. (48)

4.—BERKS.—Old-established Middle-class Retail and Dispensing Business for immediate disposal; returns £1,300; double fronted shop, well fitted in mahogany; rent £72 per annum; let off £104 per annum; excellent opening for Optics; vendor's private residence is available on lease; strongly recommended. (19)

5.—LONDON, S.W.—Recently-established Retail Dispensing Business premises on 15 years' lease at £150 per annum, of which part is sub-let at £104 per annum; returns 1929, £1,932, all cash; Kodak and U.C.A.L. Agencies; price for quick sale £1,100 all at, or £750, plus s.a.v. (approximately £425). (41)

6.—LINCS.—Established Dispensing and Retail Business for quick disposal in important town; 17½ years' lease to run at £200 per annum; returns average £50 per week; very large shop, situate in main thoroughfare; specially recommended.

7.—BIRMINGHAM.—General Retail and Dispensing Business, situate in main busy road, for quick disposal; approximate returns £25 per week; double-fronted shop and seven-roomed house over; lease will be granted at £100 per annum; house above could be let at £78 per annum; price for lease, goodwill, fixtures and utensils £450; stock approximately £500. (49)

Ernest J. George

"TUDOR HOUSE," WALSALL

'Phone: 3774

CHEMISTS' VALUER & TRANSFER AGENT
STOCKTAKING AND PRICING
INCOME TAX & RATING ASSESSMENTS, &c.

Correspondence is invited from prospective purchasers relative to the following businesses for sale:—

(1) BIRMINGHAM.—Opportunity to acquire and extend business situated near centre of City; present returns approximately £750 per annum and increasing. N.H.I. dispensing; rental £65, living accommodation available; approximate value of stock and fixtures £375; purchase price required £550; excellent opportunity for beginner.

(2) BRADFORD.—Centre of City, exceptional opportunity to acquire excellently situated and extensive business with a turnover upwards of £50 per week, and offering considerable scope for extension; net rental £210 per annum, with five year lease; elegantly stocked and fitted; the owner is disposing for good private reasons, and for a quick sale will accept a capital sum of £1,000, including stock and fixtures at valuation.

(3) CHELSEA.—Established 20 years; turnover £1,450; rent £80; lease 16 years unexpired; high class toilet trade; private and N.H.I. dispensing; approximate value of stock and fixtures £700; total purchase price required £1,250.

(4) EAST MIDLANDS.—Rural area. Family and retail dispensing business with considerable connection in special proprietaries; returns approximately £3,000 per annum; an extended lease would be granted at an annual rental of £100; £600 required for goodwill; stock and fixtures at valuation.

(5) ESSEX.—Small town; recently established; returns for past twelve months £1,150; excellent opportunities for advancement; N.H.I. dispensing; rent £85, lengthy lease; living accommodation available, annual gross profits exceed £450; purchase price £950, including value of stock and fixtures estimated at £700.

(6) HAMPSTEAD.—Old established; elegantly fitted and well stocked; excellently situated in busy thoroughfare; turnover £3,000 to £3,500 per annum; rent £150 to £200; lease with option to purchase; stock approximately £2,500; £4,000 capital required; further particulars to possible purchasers.

London enquiries re businesses, stocktaking, etc., may be addressed to Mr. S. F. CLARK, 34 Marksbury Avenue, Richmond, Surrey. Telephone: Richmond 2210. Correspondence, which will be treated in strict confidence, is invited from prospective vendors and purchasers of businesses.

(7) KENT.—Small town; established 40 years; turnover £1,150, net profits £285; 14 years lease; N.H.I. and private dispensing; D. & P. and Kodak agency; purchase price required £550, including stock and fixtures estimated at £400.

(8) LINCOLNSHIRE.—Small town, annual returns £3,000; premises for sale at £1,350; the stock and fixtures are estimated at £1,350, and the owner is prepared to accept a nominal sum of £100, in respect of goodwill, making a total purchase price of £2,800; excellent proposition.

(9) SOUTH COAST.—Large town; annual returns upwards of £2,000, with considerable scope for increase; excellent opportunity for the establishment of an important retail and family dispensing business; a considerable local demand has also been created in connection with certain specialised products, the formula for which the present owner is prepared to include as part of the purchase figure; acquisition of the business will also entail purchase of property, the value of which is estimated at £2,500, but a considerable portion of this sum could doubtless be raised by mortgage; thoroughly sound proposition.

(10.) SHROPSHIRE.—Charming country town; established 90 years; returns £1,700; net profits approx. £380; living accommodation; lease on premises by arrangement; the owner being desirous of disposing quickly solely on account of health reasons, will consider any reasonable offer.

(11) GLOUCESTERSHIRE.—Established 100 years; very prominently situated; living accommodation; rent £75; lease 16 years to run; the returns are steadily increasing and at present amount to approximately £1,500 per annum; optical connection; personal reasons for wishing to dispose; the owner will consider an offer in the region of £1,700, which includes value of stock and fixtures estimated at £1,400.

(12) SCOTLAND.—Two good profit-earning and desirable family businesses, one in North and the other in the South, may shortly be offered for sale owing to prospective retirement. Chemists who would be interested should apply for particulars to be forwarded when available.

The Way to BETTER Business

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Expert Service, Quick Results.

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HAARLEM OIL (Dutch Drops)

We require **BUYING AGENT** for the United Kingdom for the Sale of our renowned Haarlem Oil.

Please apply, with references, to the manufacturers:

N. V. CHEMISCHE FABRIEK
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PREMISES TO LET.

A REALLY genuine opportunity for good Business without competition in important thoroughfare, South Croydon; excellent lock-up shop, suitable for Chemist; rent £85 per annum, rising after 3 years to £100 (exclusive). Write for further details to A. M. Cawthorne, Architect, 54 Victoria Street, S.W.1. Phone: 0062 Victoria.

STREATHAM.—A rare opportunity occurs to acquire a modern Shop in this flourishing suburb; rent £140, including flat over; no premium; shop front in. Apply Wates, Ltd., 668 High Road, Streatham, S.W.16. Telephone: Streatham 6300.

TO be Let, on lease, Ealing, exquisitely fitted Shop suitable for Chemist; good position; rent £100, rising to £135 per annum in 3 years. Apply J. Griffin & Son, 41 Broadway, Ealing, W.5. Tel. No. 2800.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

A DVERTISER, with £2,000-£3,000 capital, wants a business, preferably in or near London. All particulars, the more the better, will be treated as strictly confidential, but will be subject to keen investigation. 260/2, Office of this Paper.

BERDOE & FISH are in immediate want of sound concerns in all parts, and invite correspondence from intending vendors. Cash buyers waiting, and quick sales negotiated without any publicity. Private register kept. Transfer Offices, 41 Argyle Square, King's Cross, W.C.1.

CHEMIST and Druggist desires to purchase sound Business, with turnover from £2,000-£3,000 per annum; healthy district. Please give gross and net profits, class position, amount of dispensing, and how long established. All replies treated with strict confidence. 258/25, Office of this Paper.

DRUG Store wanted in Yorkshire, living accommodation, for young man; one with a good side line (in confidence). 259/26, Office of this Paper.

PRESTON & PARTNERS, LTD., 29 Ludgate Hill, E.C. (telephone: Central 4992), have numerous applicants for sound Businesses at all prices, particularly in London area and Southern Counties; owners wishing to dispose of businesses are invited to forward particulars, in confidence, or telephone for appointment.

REQUIRED, a small Business (not in the North or Wales or London). Apply to G. Godding, Chemist, Market Deeping, near Peterborough.

WANTED, small Shop for lady for sale of Patent and Proprietaries, Medicines, Dressings, etc.; advertiser would like to work in conjunction with good Chemist, who would take orders for dispensing, developing and printing, perhaps in growing district within bus reach of chemist; references, bank, trade or personal. 260/14, Office of this Paper.

YORKSHIRE.—Sound Business wanted in Yorkshire by Pharmacist with ample cash. Please give full particulars, which will be treated in strict confidence. 246/13, Office of this Paper.

AGENCIES.

WALES AND POTTERIES.—Representative wanted, one already on ground preferred, to carry additional line, well known, and already in many Pharmacists on this territory; references essential. 258/27, Office of this Paper.

PREMISES FOR SALE.

SLOUGH.—Unique opportunity. The shopping centre for the Slough Trading Estate. New population of about 10,000 within 1 mile radius. New Shops, 18 ft. by 40 ft., with five-roomed flats over; exceptional value at £1,500 each; favourable mortgage terms can be arranged; four already occupied; three more ready; good opening for Chemist. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, London, W.1.

APARTMENTS.

BED-BREAKFAST.—Private house for Commercially representing Wholesale Druggists and Druggists' Sundries Houses; tram pass door. Winskip, 7 North Terrace, Newcastle-on-Tyne.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—For Sale, urgent, recently-opened Business in main shopping thoroughfare; close to four surgeries; owner wishes to start medical course this October; excellent opportunity for young, single pharmacist with initiative; low overhead expenses; payments may be extended over period; every assistance given. 260/24, Office of this Paper.

BOURNEMOUTH DISTRICT.—Unopposed Drug Store; popular summer seaside resort; lock-up shop; long lease; established one year only; takings £650; would make splendid branch shop or suit semi-retired Chemist; price £275. 262/22, Office of this Paper.

BRIGHTON.—Main road; central; unopposed; steadily increasing business; smart, attractive, modern, double-fronted; net profit £6 a week; takings almost doubled in last 12 months; living accommodation; no reasonable offer refused. 262/12, Office of this Paper.

BRISTOL DISTRICT.—Unopposed Pharmacy, doing over £1,500; excellent scope considerable increase; present hands 25 years; electric light; Kodak Agency; ill-health sole reason for quick sale; good living accommodation, large garden, warehouses, etc.; freehold property must be sold; every investigation allowed; full particulars interview; bankers' references essential. "Statim," 260/5, Office of this Paper.

GLOUCESTER.—Well-established Middle-class Cash Business; Kodak Agency; net profit £480 and increasing; light well-fitted corner shop; stock £500; favourable lease; 12 years unexpired; good living accommodation; small garden; back entrance; price £1,000 or reasonable offer; no triflers, please. 261/30, Office of this Paper.

HOME COUNTY.—Chemist's Business for Sale in working-class district; Light Retail, N.H.I. Dispensing, Prescribing, and Photographic; 12 miles from City; very low rent; on lease; convenient house; good profits; near railway station; up-to-date stock; good reasons for disposal; price £400; bona-fide purchasers only. "Bene," 260/1, Office of this Paper.

LONDON, W. (main road).—Lock-up Shop; middle-class business; taking at present £80 per month; low rent; nicely fitted, well stocked; full particulars at interview; price £400 all at. Apply, 260/26, Office of this Paper.

NEAR MANCHESTER (main Manchester-Liverpool Road).—Attractive lock-up, held on lease for 15 years; renewable; rent and rates £47 per annum; General Retail, Kodak Agency; scope for Optics; returns £1,350 per annum; N.H.I. average 450 per month; price for lease and goodwill, £200; stock and fixtures, £600. No triflers, please. Apply 2 Boundary Road, Irlam, Lancashire.

NORTH STAFFORDSHIRE.—High-class Retail Business; long lease at low rent; beautifully fitted lock-up shop; £2,000 takings, not including N.H.I.; large store-room and cellar; 75 per cent. toilet trade; good profits; stock and fixtures £2,000; good reason for selling. What offers? 263/11, Office of this Paper.

NORTH-WEST COAST RESORT.—Double-fronted corner Pharmacy; Kodak; growing district; splendid opportunity for qualified, also Optics; modern fittings; good living accommodation; separate entrance; can be let off for visitors; must relinquish; family reasons; price, fittings, etc., £300; stock, valuation; premises for Sale; £1,950 for quick sale; mortgage obtainable; particulars interview. 260/23, Office of this Paper.

SOUTH WALES.—Old-established Business; General Retail, Dispensing, Medicated Wine and Kodak Agency; small N.H.I.; returns over £2,000; held on lease; rent £70; health reasons for disposal; would suit company; good opening for Optics; price £200 and stock and fixtures valuation, total £1,000-£1,200; no triflers. "Cymro," 241/20, Office of this Paper.

STRATFORD, E.15 (main road).—Genuine, long-established Business; lease 21 years; shop and fine house; 30s. week rent; sub-let 27s. 6d. week; possession optional; travelling abroad; takings £25 to £30 weekly; bargain for quick sale; £600 for lease, fixtures and fittings; stock optional; references. "Chemist," 19 St. Mark's Road, London, E.8.

YORKSHIRE, WEST RIDING.—Good-class Retail and Dispensing Business, situate in popular market town in centre of good residential area; returns £1,150; rent of shop, living accommodation and store at rear £45; rates £32; net profit £111; opportunity to work up a good business and increase profits; sale due to owner having other business interests; price, including book debts, stock, and tenant's fixtures, £700; portion of purchase money could be left in business by arrangement. 261/2, Office of this Paper.

CHEMIST'S BUSINESS (Westcliff-on-Sea).—Established Dispensing and good Photographic Business for disposal; splendid shop in best locality facing main artery to the sea front; profits can be increased by energetic man; fine opening for Optics; £1,200, or near offer. Francis Nicholls, White & Co., Chartered Accountants, 14 Old Jewry Chambers, London, E.C.2.

SMALL, beautifully fitted Pharmacy in thickly populated and growing district; 500 N.H.I. monthly; rapidly increasing; wonderful opportunity for young man with small capital; Kodak Agency; no opposition; good reasons for disposal. 258/29, Office of this Paper.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BRIGHTON.—Wanted, at once, smart young Junior, well up in Window-dressing and Counter work. Full particulars as to references, age, height and salary (photo returnable). Leo. Benham, 6a Queen's Road, Brighton.

LONDON, W.1.—Capable, unqualified Assistant wanted; must be a good Salesman, Dispenser and Window-dresser, and able to take charge. Apply (in confidence), giving full particulars, salary, etc., BM/BVMW, London, W.C.1.

LONDON.—Young lady Assistant. Please give particulars as to experience, if any knowledge of D. & P., and stating age, height, salary required, and when at liberty. Marshalls Chemists, 78 High Street (Dalsion Junction), Kingsland, E.8.

SAINT BARTHOLOMEW'S HOSPITAL, Rochester, Kent.—Lady Dispensary Attendant required at once; live out; good opportunity to gain dispensing experience in exchange for morning work only; 5s. weekly, dinner and tea provided. Applications, with references, to be addressed to the Dispenser.

JUNIOR Assistant wanted; age about 20; with London experience preferred. Apply in writing in first place, stating full particulars, to Harvey & Co. (Chemists), Ltd., 8 Onslow Place, South Kensington, S.W.7.

QUALIFIED Assistant for small branch; reliable man required. Full particulars and photo to Darlings', Chemists, South Shields.

QUALIFIED Assistant (Chemist and Druggist) required (male), capable of taking charge; position offers prospects to suitable candidate. Applications at once, by form only, to be obtained from the Secretary, Ten Acres and Stinchley Co-operative Society, Ltd., Umberslade Road, Stinchley, Birmingham.

QUALIFIED Assistant, capable of taking charge of middle-class business, with N.H.I. and Photo. Apply, with full particulars of experience, age, salary required, and references, to R. Wood, 5 Blenheim Road, Caversham, Reading.

QUALIFIED Assistant wanted immediately (outdoor); must have had experience and able to take entire charge; good commission and small salary; 20 miles from London. Write, stating age, height, photo, and testimonials, to Millingen, 20 Bridge Avenue, Hammersmith, W.6.

QUALIFIED Assistant, male, to manage branch business at Forest Gate, E.; age 25-30; must be quick and accurate Dispenser and good Window-dresser. Apply by letter, giving usual particulars, salary required, etc., to C. A. Moore, M.P.S., 12 Beehive Parade, Ilford, Essex. Applicants not answered in six days respectfully declined.

QUALIFIED lady or gentleman, in about fortnight's time, for three or four weeks; light N.H.I. and general supervision. Thompson, 157 Kingsland Road, E.2.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

QUALIFIED Manager (experienced) for business in London. Applicant should possess modern ideas, able to make good displays, and be between the ages of 27 and 35; good prospects for the right man, including bonus and commission on results. State full particulars as to wage, when at liberty and age, to 260/35, Office of this Paper.

QUALIFIED Manager, age 25 to 35, required for new Pharmacy in small working-class West Lancashire town; salary and commission; positively no enclosures to be sent in first letter. Apply 260/31, Office of this Paper.

QUALIFIED Assistant required in a Wilts country town business; reasonable hours. Give full particulars to 263/16, Office of this Paper.

TAYLORS CASH CHEMISTS require Juniors (male or female), with good knowledge of Dispensing, for London and district. Applications (by letter only), giving full details of experience, age, wage required, and when available, to Taylors Cash Chemists 55 Pall Mall, London, S.W.1. Applications not answered in four days respectfully declined.

UNQUALIFIED Assistant required; Counter, Dispensing and Window-dressing. Give full particulars, age, experience, and salary; interview where convenient. Watkinson, 384 Lordship Lane, Tottenham, N.17.

WINDOW-DRESSER required immediately; must be industrious, original and fully expert in the work; male or female; permanency to suitable applicant. Give full particulars as to experience, etc., stating salary required. Galloways, Chemists, Birmingham.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A YOUNG Assistant Stock-keeper required. Apply, by letter, stating experience, wages, etc., to "Director," Savory & Moore, Ltd., 143 New Bond Street, W.1.

EXECUTIVE Directorship with investment offered to gentleman with capital, possessing energy and experience of modern publicity and sales management, to develop well-established Wholesale Business showing unusual possibilities for large extension. State full particulars, age, experience, capital at disposal, and when at liberty to 177/301, Office of this Paper.

LADY Pharmacist wanted, with Minor qualification or equivalent, as Typist-Stenographer in Technical Laboratory. 260/4, Office of this Paper.

PHARMACIST required for Wholesale House; must have experience of modern plant and accustomed to the manufacture and packing of all classes of Galenicals and Pharmaceutical Preparations; able to control mixed staff; some commercial experience an advantage. Write, giving full particulars, stating age and salary required, to 177/298, Office of this Paper.

REPRESENTATIVE, with experience in Lancashire, required by old-established London Chemical and Drug House. Reply, stating age, salary required, and full particulars of career, 258/28, Office of this Paper.

REPRESENTATIVE wanted by well-established Manufacturing Chemists to carry a wide range of Pharmaceutical Toilet and Proprietary lines at highly competitive prices in North of England and Yorkshire; applicants should have connection in this territory and be really keen salesmen; remuneration by salary and commission. Write "M.," Box 974, Bensons, Kingsway Hall, W.C.2.

REPRESENTATIVE required by a London firm of Manufacturers' Agents; one with wide connection Wholesale and Retail Chemists and possessing highest references essential; no salary, but half share of net profit. Apply, giving full particulars, P.C.B. 89/13, Office of this Paper.

REPRESENTATIVES (young) for quick-selling non-competitive Toilet Preparation, to secure distribution preparatory to wide advertising campaign; connection Chemists, Hairdressers, etc., essential. Write full details (in confidence) to A. W. Cornell, 12 City Road, London, E.C.1.

REPRESENTATIVES required, well known to Chemists, best Hairdressers and Stores, by London manufacturers with Continental Agencies; excellent range Toilet Goods all descriptions except Perfumes; fine proposition energetic men; good commission only. Please state territory, confidential, 261/26, Office of this Paper.

REQUIRED, the services of gentlemen in various districts to push a well-known production; only those who already have a well-established connection among Retail Chemists need apply; the work will not conflict with present representation; state exact territory covered and frequency of calls. Box 1271, S. Davis & Co. (Aldwych), Ltd., Aldwych House, London, W.C.2.

TABLET Maker wanted; must have full knowledge of all processes, granulation, compression, coating, hypodermics, etc.; only fully experienced applicants considered. Write, stating age, experience, salary required, to 177/297, Office of this Paper.

TRAVELLERS wanted for London and provinces, on commission basis only, to sell well-known Herbal Cigarettes; 20 per cent. given; only those with a sound Chemist and Druggist connection will be considered. Apply (by letter) Astismoka Herbal Cigarette Co., 435 Mile End Road, E.3.

TRAVELLERS wanted to carry Perfumery and Toilet lines; commission only; must have good connection with best Chemists, Stores, etc. 260/22, Office of this Paper.

WHOLESALE MANUFACTURING.—Wanted immediately by well-known Northern firm of Manufacturing Chemists, capable man for Manufacturing Laboratory; must have sound experience in manufacture of Tinctures in particular and general knowledge of making Galenicals in quantity. State age and full particulars (in confidence) in first letter, to 177/303, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

FAR EAST.—Wanted, for the Far East, qualified Pharmacist; good experience essential; age not over 30; single; good salary; 4 years' agreement; passage paid out and home. Apply "China," 259/38, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.A.A.—**QUALIFIED**, 23, tall, requires post as Assistant (outdoors); good experience; excellent references; good worker; disengaged now. "H. H. G.," 52 Dnyham Road, N.W.6.

A.A.A. **ASSISTANT** (Part I); 23; reliable and trustworthy; good Dispenser and Counter-hand; not afraid of really hard work; London experience. Malkin, 50 Busfield Street, Leeds.

A.A.—**QUALIFIED**, 23, requires Locum, 3 weeks; 4 years' good experience; excellent references; disengaged. Morris, 45a Atherfold Road S.W.9.

A.A.—**EXPERIENCED**, qualified Manager, energetic business man with modern commercial ideas and sound professional training, desires post. 262/10, Office of this Paper.

A.—**QUALIFIED** Chemist, sound experience, married, capable complete control, keen Salesman and Buyer, highest references, etc., courteous and obliging, requires responsible management; town or country; at liberty now. 262/3, Office of this Paper.

A CAPABLE lady requires permanency early November; age 30; over 12 years' London and provincial experience, includes 2 years managing; quick, accurate Dispenser; good Prescriber and Saleswoman; Window-dresser, Photography, Book-keeping, Hospital Nurse; medium height; good appearance; well educated, unqualified; excellent references. Miss Harris, "Berberis," Selsey, Chichester.

A CAPABLE, experienced Chemist in all branches desires position as Manager; London or suburbs; married; highest references. "Scot," 261/19, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

A COMPETENT, qualified Assistant, 22, tall, "Square" trained, requires post, London, South or Midlands; good varied experience; excellent references; disengaged; interview if desired. Baker, 26 Hatton Avenue, Wellingborough.

A JUNIOR, 22, unqualified, seeks situation; Counter, Dispensing, Window-dressing, knowledge Photography; free November 10. Devereux, c/o Mrs. Chinnery, Mildenhall, Ely, Cambs.

A LOCUM or permanency; moderate terms; disengaged; excellent experience, Retail and Wholesale; accustomed taking charge, good Salesman and Dispenser; good references. "Reliable," c/o 72 Roseneath Road, Urmston, Manchester.

A QUALIFIED Pharmacist, young, requires permanent position as Manager or Senior; excellent references. "Chemist," 40 Duckess Road, Edgbaston, Birmingham.

A CTIVE; elderly; single; qualified; disengaged; any capacity; Locum, permanent; moderate. J. Dallas, 81 McKean Road, Oldbury, Birmingham.

A CTIVE and energetic qualified Manager seeks permanency; comprehensive business abilities; extensive London experience; Prescribing, N.H.I., etc.; married; disengaged October 15. "Manager," 187 St. Ann's Road, Tottenham, N.

A N unqualified Assistant (23), all-round London experience, excellent references, requires permanency. "E. M.," 39 Chinbrook Road, Grove Park, S.E.

A N experienced Pharmacist seeks post as Locum or Branch Manager; N.H.I., Photography and Counter; free October 11; terms moderate. Harris, 52 South Side, Clapham Common, S.W.4.

A PPOINTMENT as Manager; qualified; 34; married; energetic; conscientious; 7 years' branch manager; Optics, Photo; all-round experience; free October 20. "Rudicbus," 4 Richmond Gardens, Highfield, Southampton.

A S Locum or Assistant; disengaged; abstainer; good references; terms moderate. "H. G.," 142 Hill Lane, Southampton.

A S Manager; F.B.O.A., J.C.Q.O., M.P.S.; expert Refractionist, good Salesman, successful experience, keen business man; excellent references. 261/39, Office of this Paper.

A SSISTANT or Manager; qualified; 24; wide experience of high-class pharmacy; well recommended; disengaged. Gale, 57 Lansdown View, Bath.

A SSISTANT, unqualified, age 25, requires situation in high-class pharmacy; capable Dispenser; courteous, willing and obliging; well recommended; London (West End) or South of England preferred. Shepherd, 805 Prince of Wales Road, Darnall, Sheffield.

A SSISTANT (referred Pharmacognosy); 22; 18 months' London experience; quick, accurate Dispenser and good Salesman; disengaged immediately. 259/36, Office of this Paper.

A SSISTANT; 21; disengaged; used to heavy Dispensing, Windows, Counter. "Script," 28 Clegg Street, Brierfield, Burnley, Lancashire.

A SSISTANT; unqualified; single; first-class London experience; disengaged October 31; London only. Jones, 30 Clyde Road, Sutton, Surrey.

A SSISTANT; unqualified; 22; tall; high-class city and seaside experience all branches; good references. K. C. Gilbert, 34 Seaford Road, Blackpool.

A SSISTANT; unqualified; mid-age; Dispensing, Counter, Photographics; part-time, Locum or permanency; London only. Write "Buddlea," P.C.B. 89/11, Office of this Paper.

A SSISTANT; unqualified; permanency preferred; can manage Chemist's Retail or Drug Store; disengaged. "Statim," 72 Tremadoc Road, Clapham, S.W.4.

A SSISTANT; 25; tall; seven years' experience; Counter, Dispensing, Windows, Photographic; Part I; highest references; free 20th. J. Tyrrell, 15 Innox Road, Trewbridge, Wilts.

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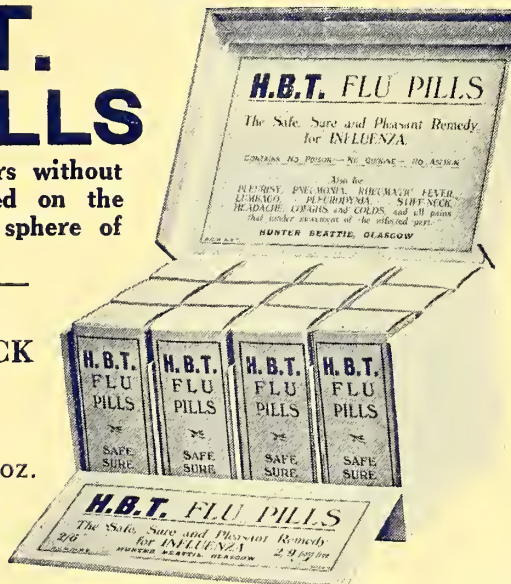
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